

Datenanalysator Data Analyzer Analyseur de données

DA-10

BN 0907/00.87; Serie D...

Etat des séries de l'annexe DA-10

Analyseur de donnés DA-10	BN 907/02	Sónia D
(avec tiroir de jonction X.20/X.21		Série D
BN 907/00.10 → BN 907/11)		
(avec tiroir de jonction V.24/V.28		
BN 907/00.13 BN 907/12)		
(extension V.24/V.28 pour BN 907/11)	BN 907/00.14	Cámia A
(extension X.20/X.21 pour BN 907/12)	BN 907/00.15	Série A
Alimentation à découpage SNT-1	BN 840	Série C
. 3	DIV 04U	Série J
Dispositifs auxiliaires:	7	
Enregistreur de données à cassette	BN 907/00.04	C= =
Mesure de distorsion (générale)		Série E
Jonction de mesure 3 (V.24/V.28)	BN 907/00.09	Série E
Jonction de mesure 4 (X.20/X.21)	BN 907/00.16	Série A
TO MESILIE T (N. ZU/N. ZI)	BN 907/00.17	Série A

BN 907/00.17

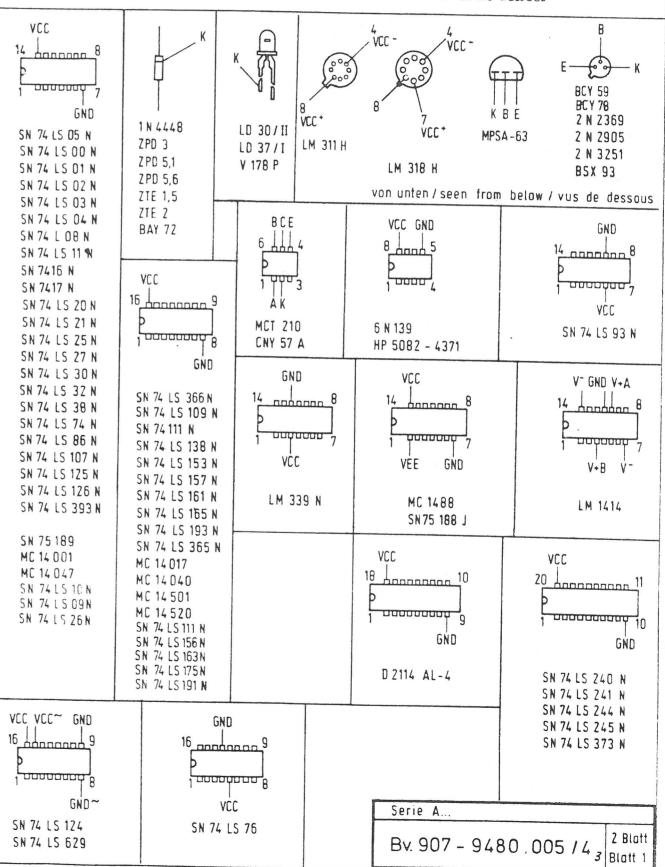
Série A ...

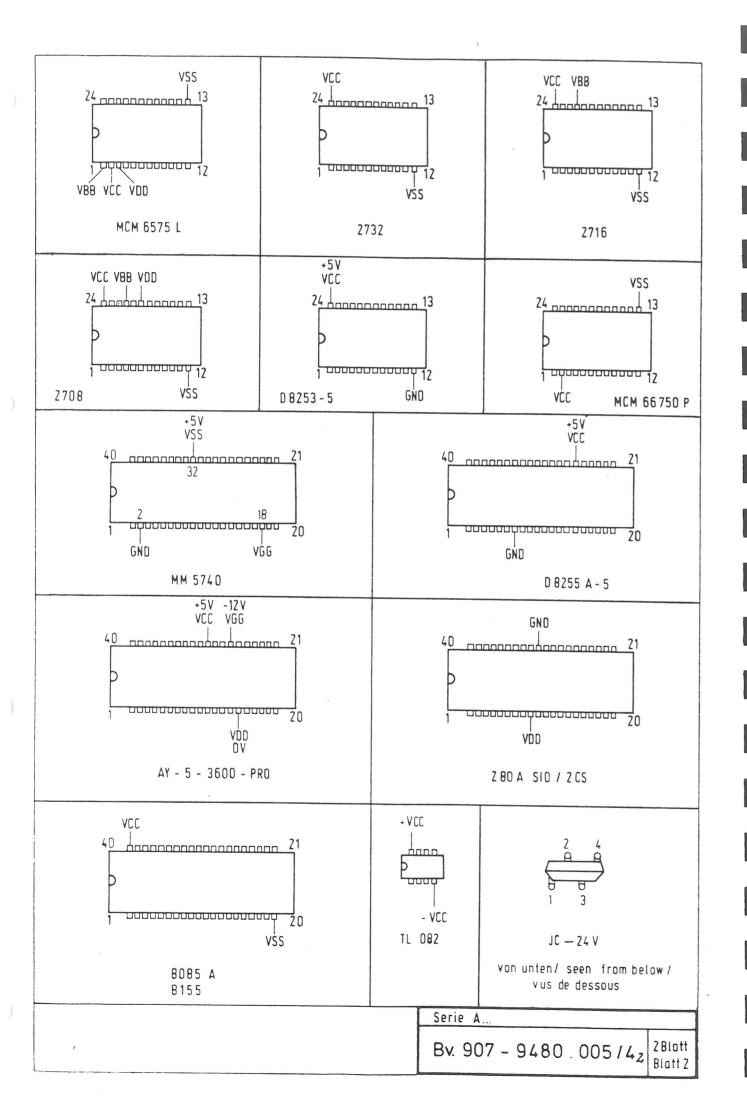
Supplément à l'annexe

Moniteur pour DA-10 Platine CPU Siemens SMP E12 A3 Interface de cassette Platine de cassette

ELEKTRODENKENNZEICHNUNG ELECTRODE DESIGNATION / DESIGNATION d'ELECTRODE

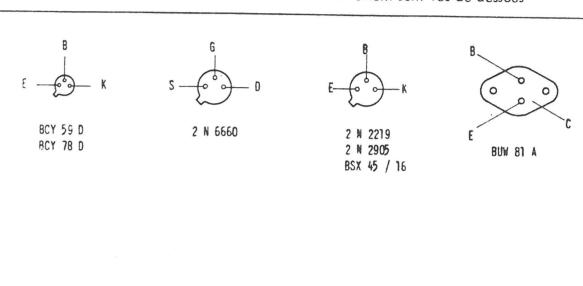
Sofern nicht anders vermerkt, alle Anschlußschemas von unten gesehen Unless otherwise noted, all connection plans are seen from below Sans autres indications tous les schémas de raccordement sont vus de dessous

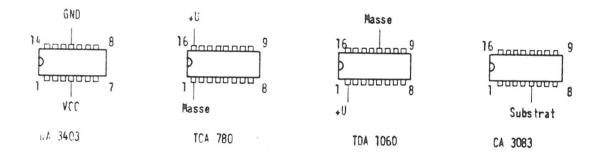


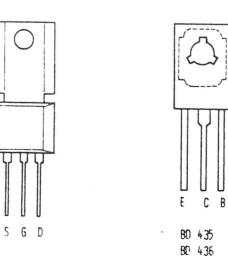


ELECTRODE DESIGNATION / DESIGNATION d'ELECTRODE

Sofern nicht anders vermerkt, alle Anschlußschemas von unten gesehen Unless otherwise noted, all connection plans are seen from below Sans autres indications tous les schémas de raccordement sont vus de dessous

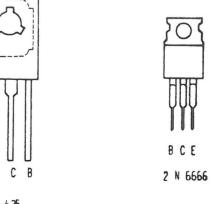




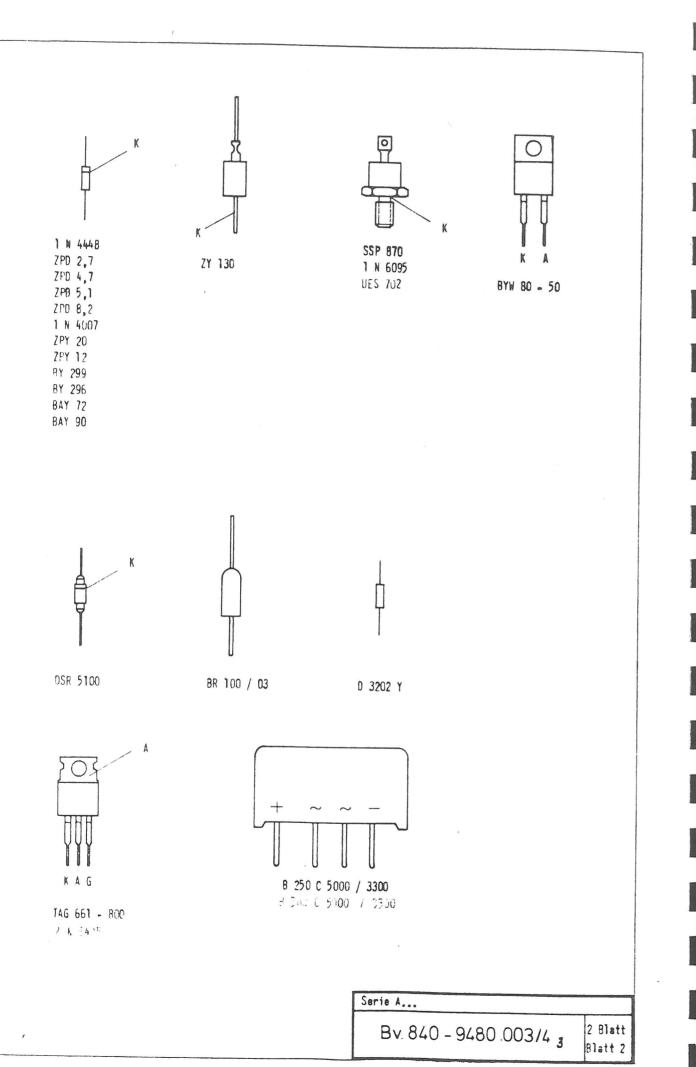


BO 776

VN 66 AK



Serie A	
Bv. 840 -9480.003/4 1	2 Blatt Blatt l



Anmerkungen zu den Stromlaufplänen und den Schaltteillisten

Notes for Circuit Diagram and the Parts Lists

Notes sur les schémas de principe et les listes de composants

Abkürzungsbeispiele

(4) = Stromlaufplan 4 820-B = Leiterplatte B

Pkt. 6 = Anschlußpunkt 6

TP 203 = Testpunkt 203

Farbkennzeichnung

bl = blau blank = blank

= grün

sw = schwarz vio = violett ws = weiß

grrt = grau/rot

geschirmte Leitung blanker Draht BS = Bestückungsseite

NBS = nicht bestückte Seite Alle angegebenen Spannungen sind mit einem Instru-ment 100 kΩ/V gegen 0 V

Relais in Ruhestellung dargestellt

Sollten die Werte bestimmte Bauelemente in den Stromlaufplänen und Schaltteillisten differieren, so sind stets die Angaben in den Schaltteillisten als verbindlich anzusehen.

Bestellangaben

Bei Ersatzteilbestellungen unbedingt

Die genaue Bezeichnung ist der Schaltteilliste zu entnehmen.

Bauelemente mit BV bzw. WN sind im Werk anzufordern.

Neben der Bestellnummer (BN) ist die Gerätenummer mit Serienindex, die Positionsnummer des Bauelements und die Sachnummer anzugeben.

Beispiel: PM-20 BN 881/01 Nr. 0001 A

Schaltbild-Nr.

Sach-Nr. 0001-0015.836 Baugruppenverbindungen

Da die Stromlaufplane für jede Baugruppe getrennt gezeichnet sind, müssen alle Zuleitungen zu anderen Baugruppen deutlich erkennbar sein Die nachstehende Skizze erläutert die hier angewandten Verfahren zur Kennzeichnung.

Beim Anschlußpunkt einer Baugruppe steht die Adresse der anderen Ar schlußpunkte, mit denen er verbunden

Verfahren 2

Beim Anschlußpunkt steht nur eine Signalbezeichnung ohne Adresse. Dann sind alle Anschlußpunkte anderer Baugruppen mit der gleichen Signalbezeichnung untereinander

Abbreviations examples

Circuit diagram 4 Circuit board B

Connection point 6 Test point 203

Colour coding

bare wire transparent green grey pink red screening black white

grey/red Screened lead Bare wire

Components side Soldering side

All voltage ratings measured with respect to 0 V with $100 \text{ k}\Omega/\text{V}$ meter.

Relays shown in rest position

If the values of individual components listed in the circuit diagrams and compo nent lists should differ from another, those values given in the component lists are valid.

Ordering Information

When ordering spare parts, the following instructions must be followed without fail:

The exact designation of the component shall be taken from the "Parts

Components prefixed with BV or WN should be ordered from the manufacturer, W&G.

Next to the order number (RN) the serial number of that particular instrument along with the position number of the component and the item number shall be given.

Example: PM-20 BN 881/01 No. 0001 A

Circuit diagram Posi Item number 0001-0015.836

Connections between subassemblies

Because of each subassembly having been drawn separately, all the inter-connections with the other subassemblies must be clearly identifiable. The following sketch explains the method used here for identifying the connections.

Method 1

At a connection point of a subassembly, there are located the addresses of the other connection points with which it is connected.

Method 2

At the connection point, there is only located a signal designation without address. Then, all similarly designated connection points of other subassemblies are interconnected.

Examples d'abréviations

Schéma 4 Platine B

Point de raccordement 6

Point test 203

Code des couleurs

bleu transparent gris rose rouge blindage noir

blanc gris/rouge

Conducteur blindé

Côté composants Côté soudure

Toutes les tensions données sont mesurées par rapport à 0 V avec un instrument de $100 \text{ k}\Omega/V$.

Les relais sont représentés en position repos

Lorsque les valeurs de certains composants différent entre les schémas de principes et les listes de composants, les valeurs des listes de composants sont seules valables.

Données pour la commande

Pour la commande de composants de rechange il faut absolument

La désignation exacte du composant qui est à prendre dans la liste des composants. Les composants BV ou WN sont d réclamer à l'usine.

Outre le numéro de commande (BN) le numéro de l'appareil avec son index de série et le numéro de position du composant et numéro d'object sont a donner.

Exemple: PM-20 BN 881/01 N° 0001 A

Nº de schéma No de position Nº d'object 0001-0015.836

Raccordement des modules

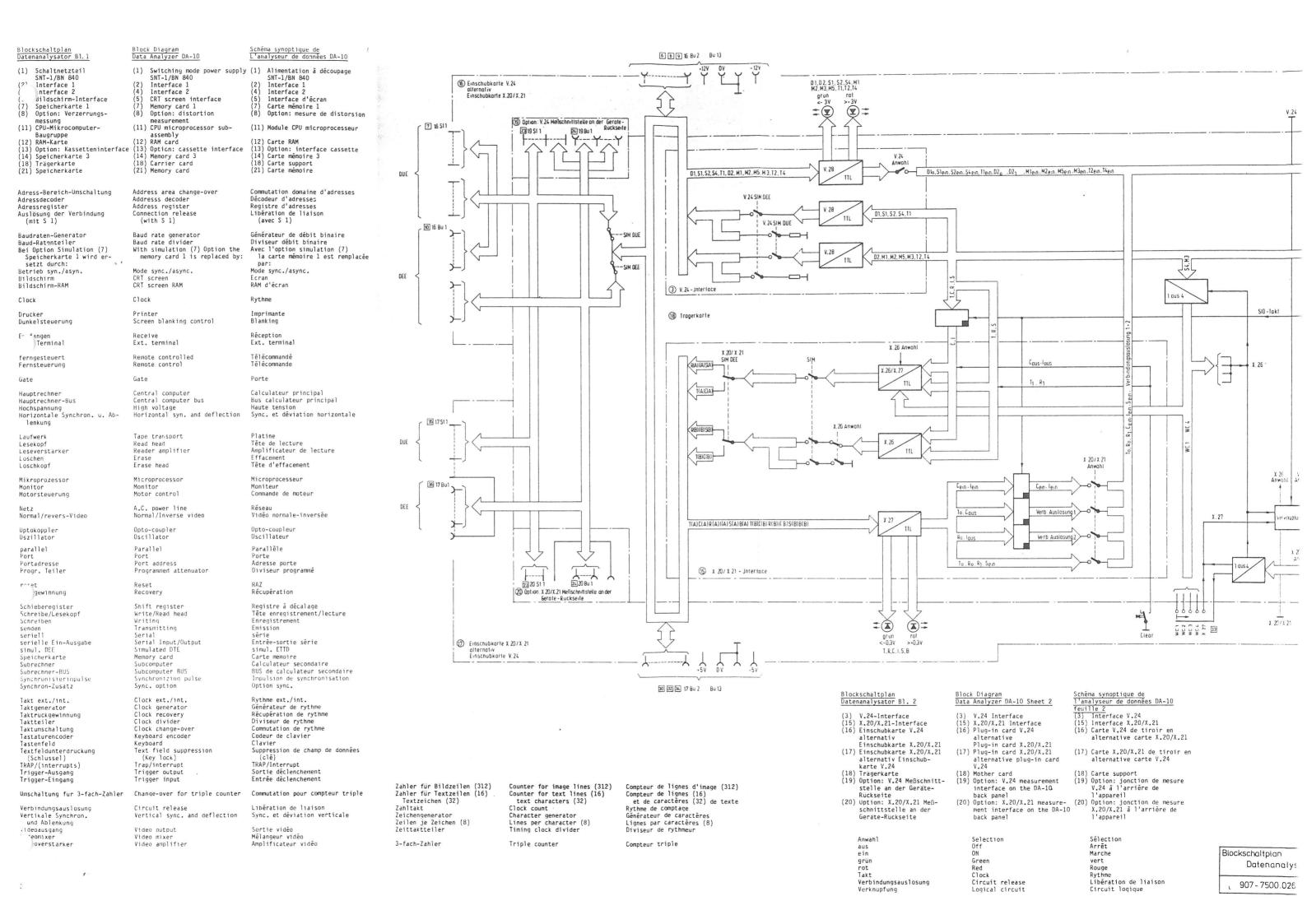
Les schémas de principe des modules étant représentés séparément les liaisons entre les différents modules doivent être facilement reconnues. Le schéma suivant indique le système d'identification utilisé.

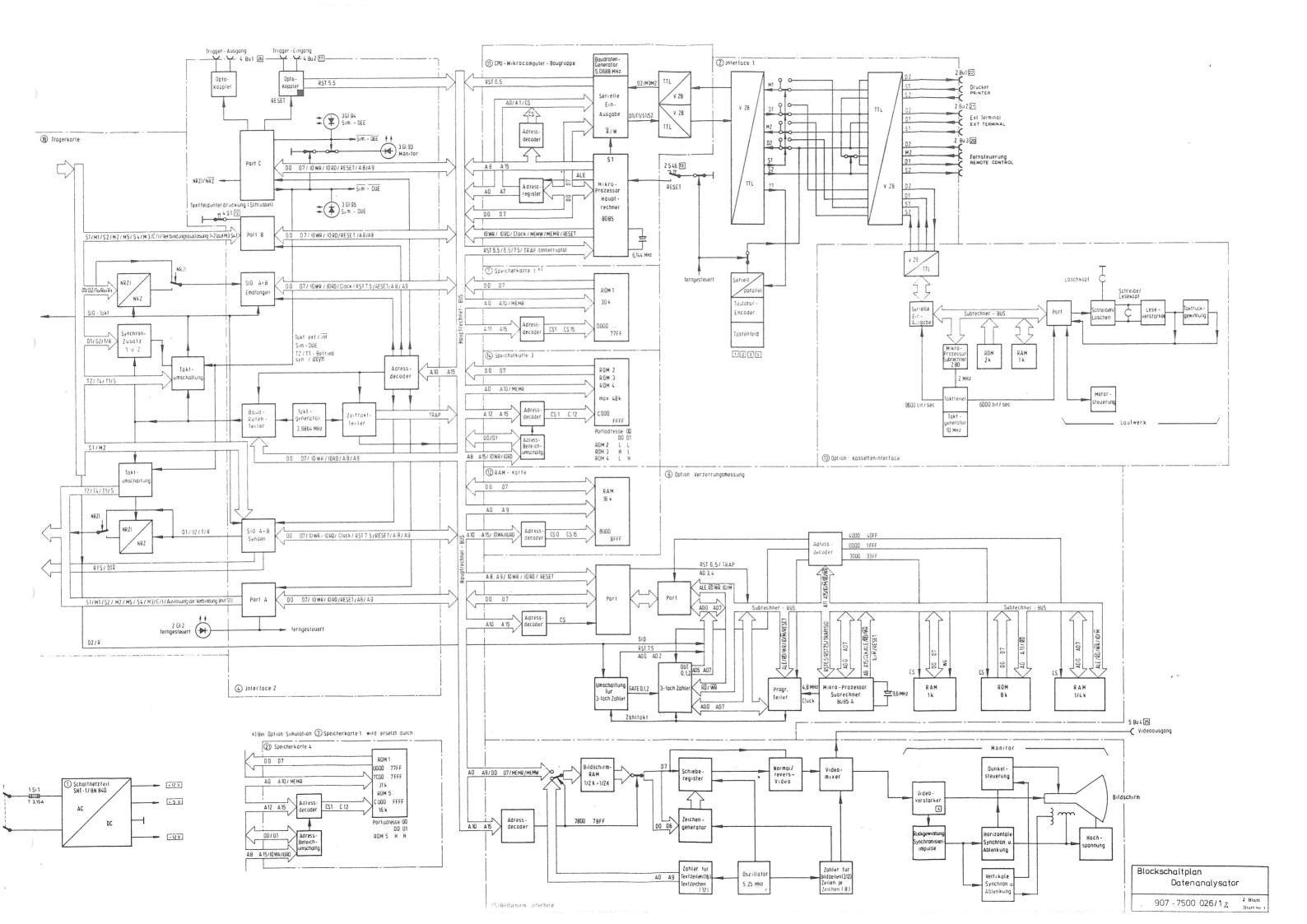
Système 1

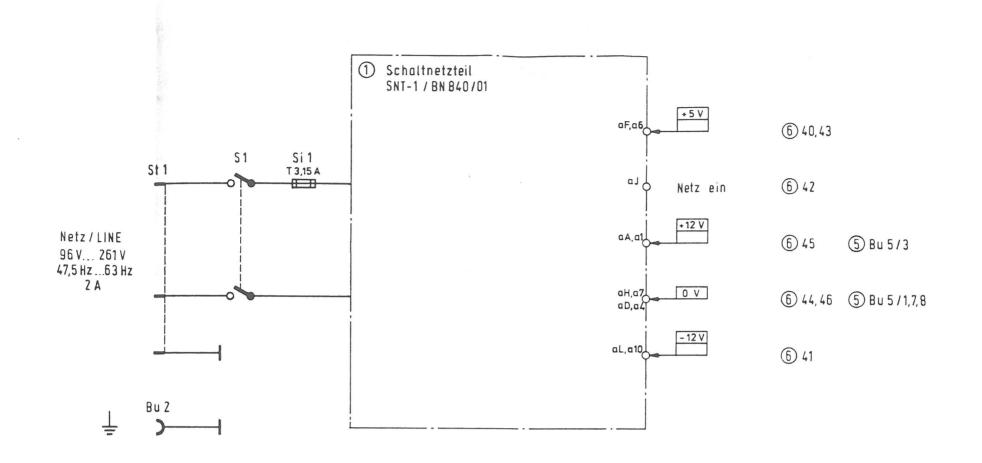
Le point de raccordement du module comporte l'adresse de l'autre point de raccordement auguel il est relié

Système 2

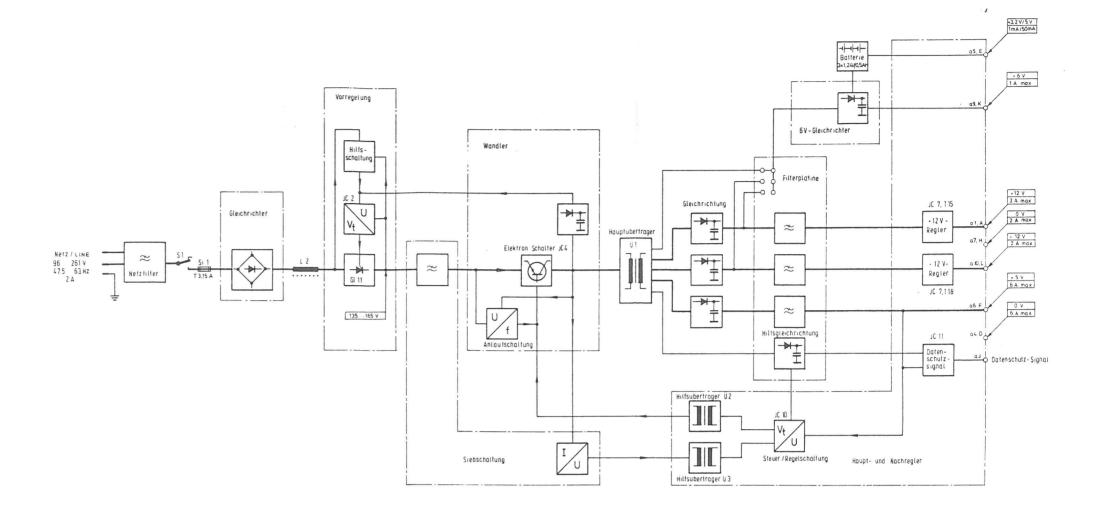
Le point de raccordement ne comporte qu'une indication de signal sans adresse. Tous les points de raccordement des autres modules signal sont alors reliés ensemble.







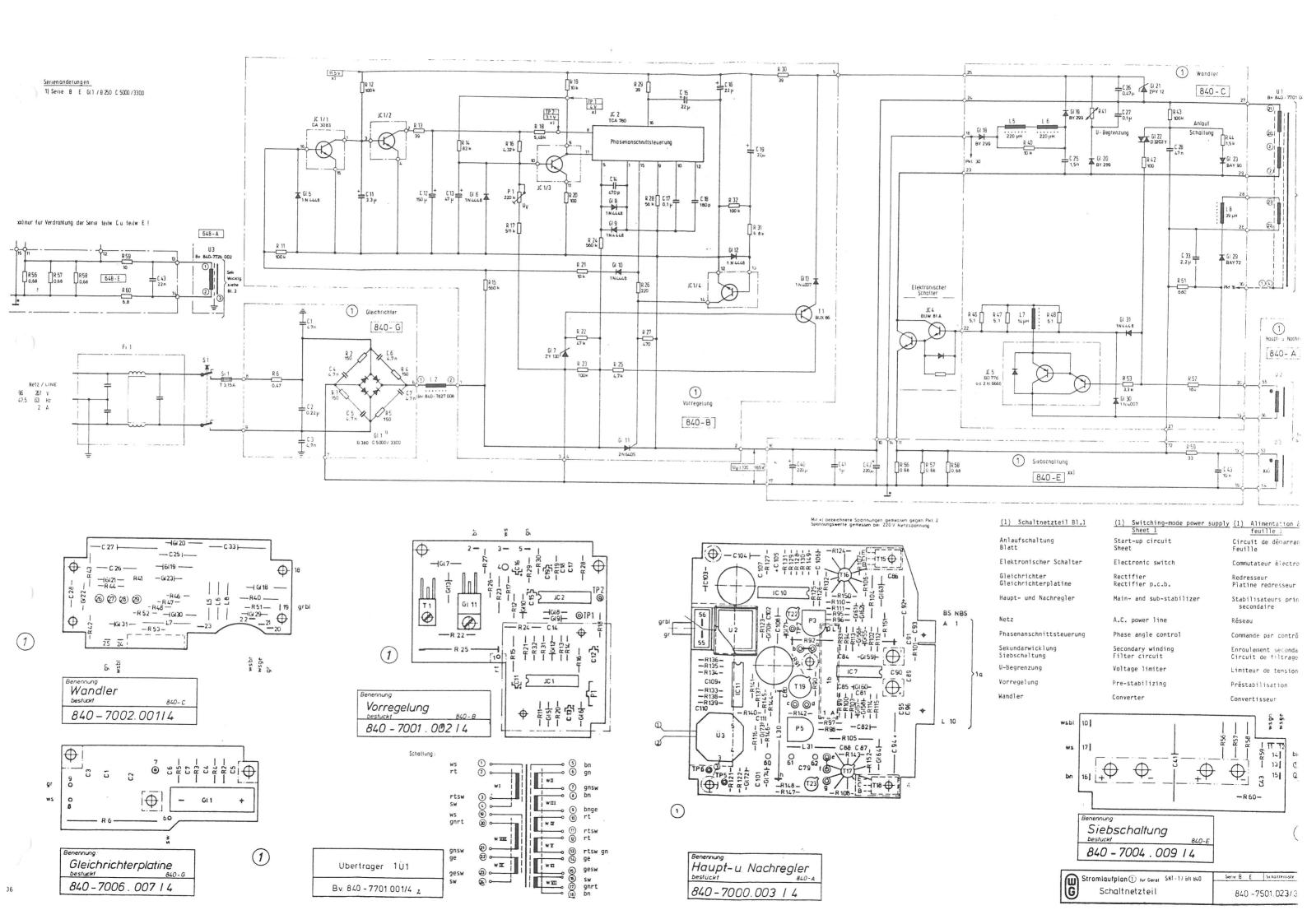
(1) Netzteil	(1) Power supply	(1) Alimentation
ein	On	Marche
Netz	A.C. line	Réseau
Schaltnetzteil	Switching-mode power supply	Alimentation à découpage

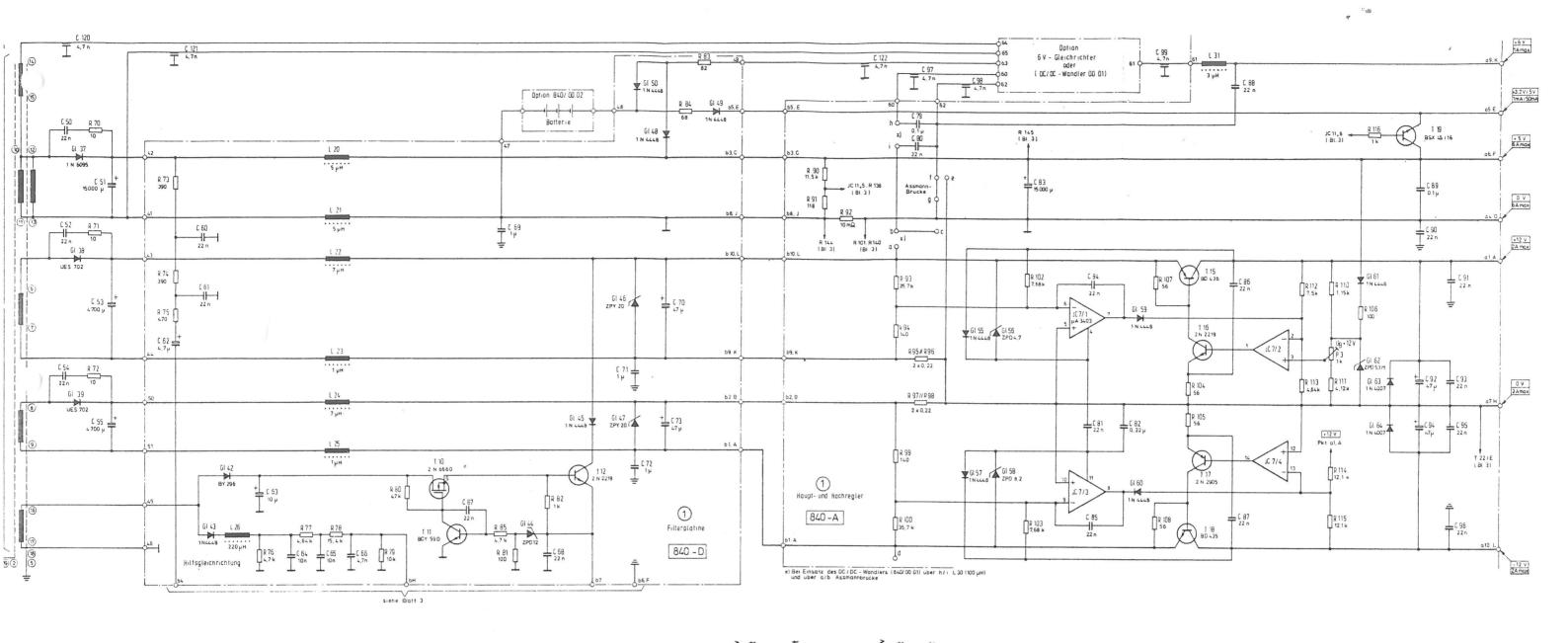


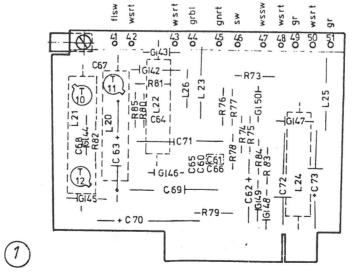
Schaltnetzteil	Switching-mode Power Supply	l'alimentation à découpage SNT-1
Anlaufschaltung	Start-up circuit	Circuit de démarrage
Batterie	Battery	Batterie
Datenschutzsignal	Data retention signal	Signal de conservation des données
Elektron. Schalter	Electronic switch	Commutateur électronique
Filterplatine	Filter p.c.b	Platine de filtre
Gleichrichter Gleichrichtung	Rectifier Rectification	Redresseur Redressement
Hauptübertrager Haupt-und Nachregler	Main transformer Main-and sub-stabilizer	Transformateur principal Stabilisateurs principal et secondaire
Hilfsgleichrichter Hilfsschaltung	Auxiliary rectifier Auxiliary circuit	Redresseur auxiliaire Circuit auxiliaire
Netz Netzfilter	A.C power line A.C line filter	Réseau Filtre réseau
Regler	Stabilizer	Stabilisateur
Siebschaltung Steuer/Regelschaltung	Filter circuit Control/Stabilizer circuit	Circuit de filtrage Circuit de commande et stabilisateur
Vorregelung Wandler	Pre-stabilization Converter	Préstabilisation Convertisseur

Vokabular Blockschaltplan SNT-1 Glossary, Block Diagram SNT-1 Vocabulaire du schéma synoptique de

€ B	lockschaltplan rur aerat : SNT-1 / BN 840	Serie A	-Schaltteilliste :	
	Schaltnetzteil	840 -	7500.011/34	1. Biact
	,	0.0	. 000 . 0 , 0 4 ,	Blatt-Mr.



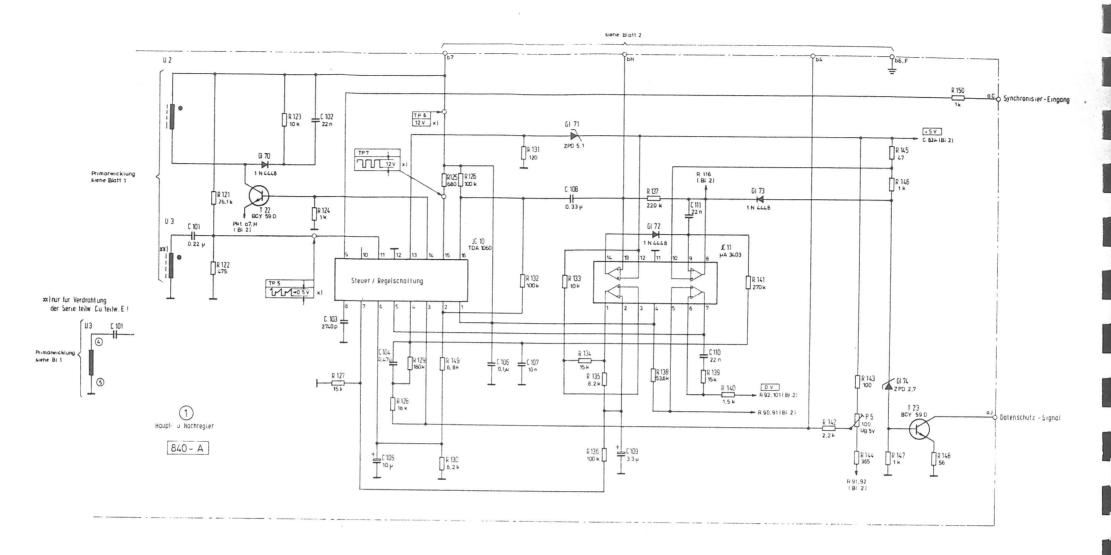




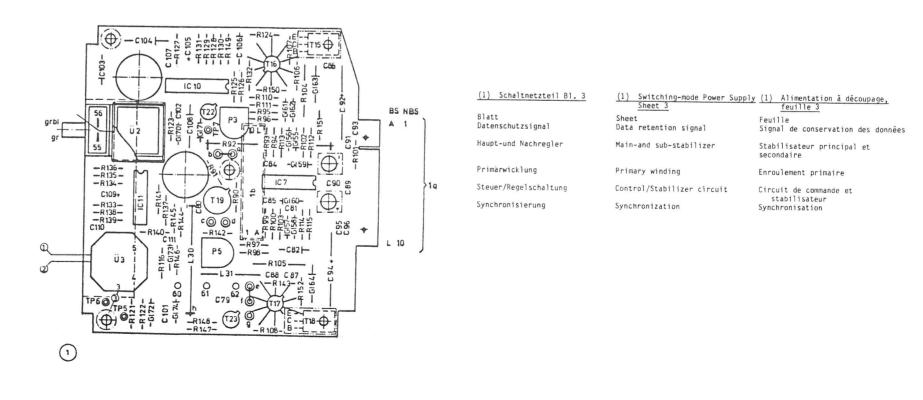
(1) Schaltnetzteil Bl. 2	(1) Switching-mode Power Supply Sheet 2	(1) Alimentation à découpage, feuille 2
Assmann-Brücke	Plug-in strap	Cavalier
Batterie Bei Einsatz des DC/DC-Wandlers überund über Bi. (Blatt)	Battery With use of the DC/DC inverterviaand via Sheet	Batterie A l'emploi du convertisseur DC/DC viaet via Feuille
Filterplatine	Filter p.c.b	Platine de filtre
Gleichrichter	Rectifier	Redresseur
Haupt- und Nachregler	Main-and sub-stabilizer	Stabilisateur principal et
Hilfsgleichrichtung	Auxiliary rectifier	secondaire Redresseur auxiliaire
oder	or	Ou
Pkt. Primärwicklung	Point Primary winding	Point Enroulement primaire
Wandler	Converter	Convertisseur

Filterplatine
bestuckt 840-7003.00014 2

Stromlaufplan 1 tur Gerat SNI-1 / BN 840	Serie BE	
G Schaltnetzteil	840 - 7501,023/33 6	3 Horr



Mit x) bezeichnete Spannungen gemessen gegen 0 V (Pkt. a7,H) Spannungswerte: gemessen bei 220 V Netzspannung



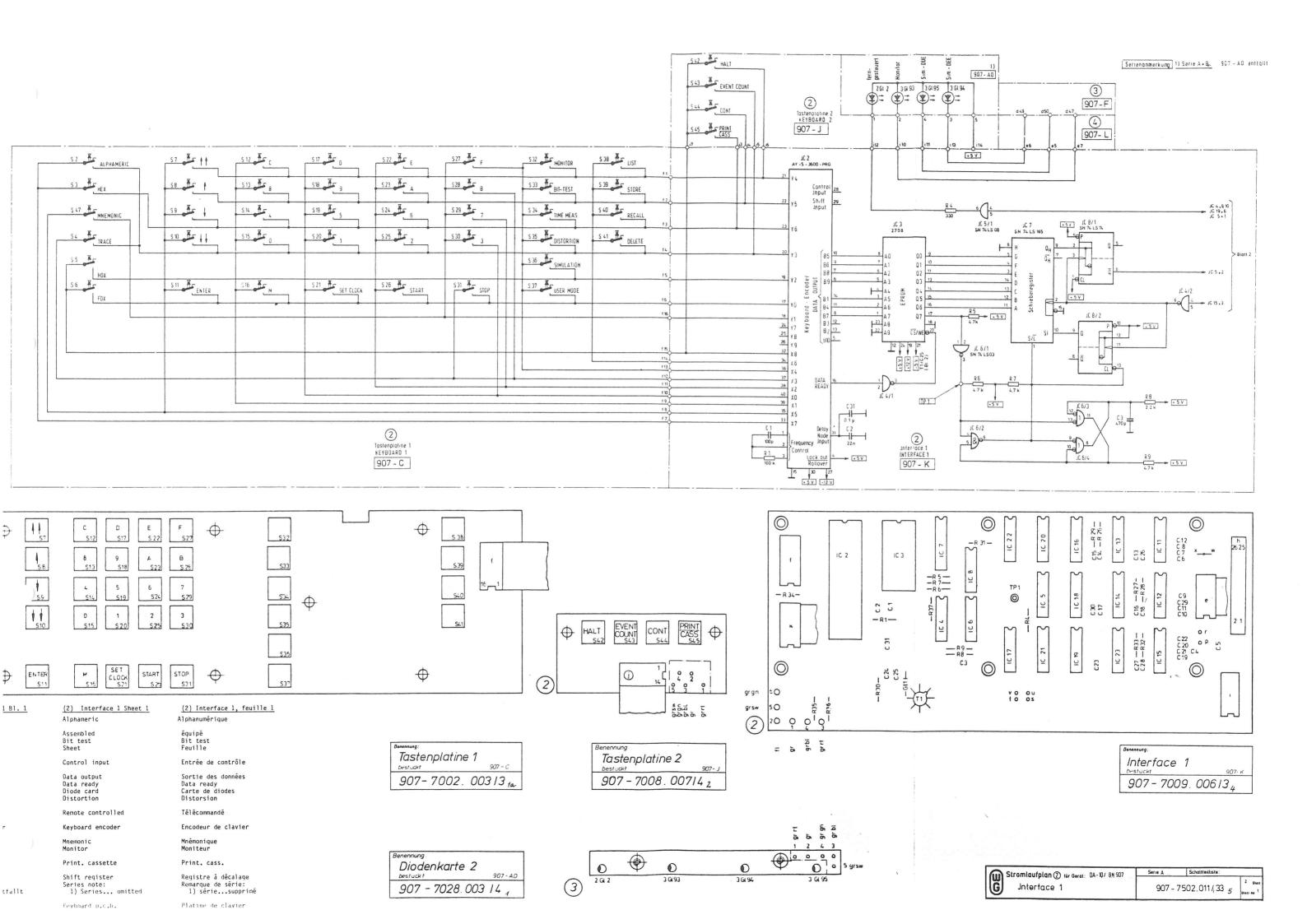
Stromlaufplan ① jur Gerat: SNT-1/8H840
Scholtnetzteil

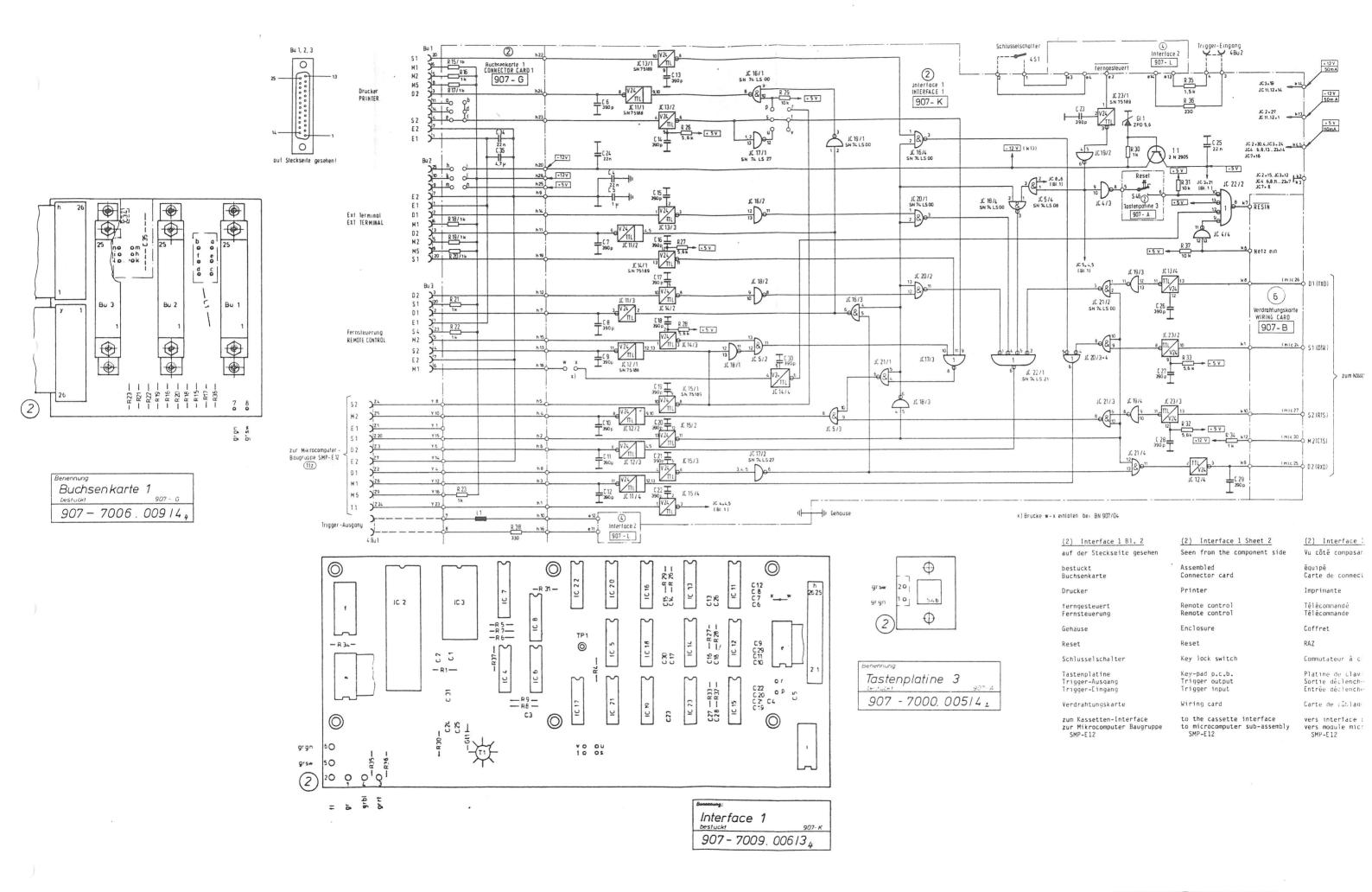
Serie B E Schaltteilliste

840 - 7501.023/34 3

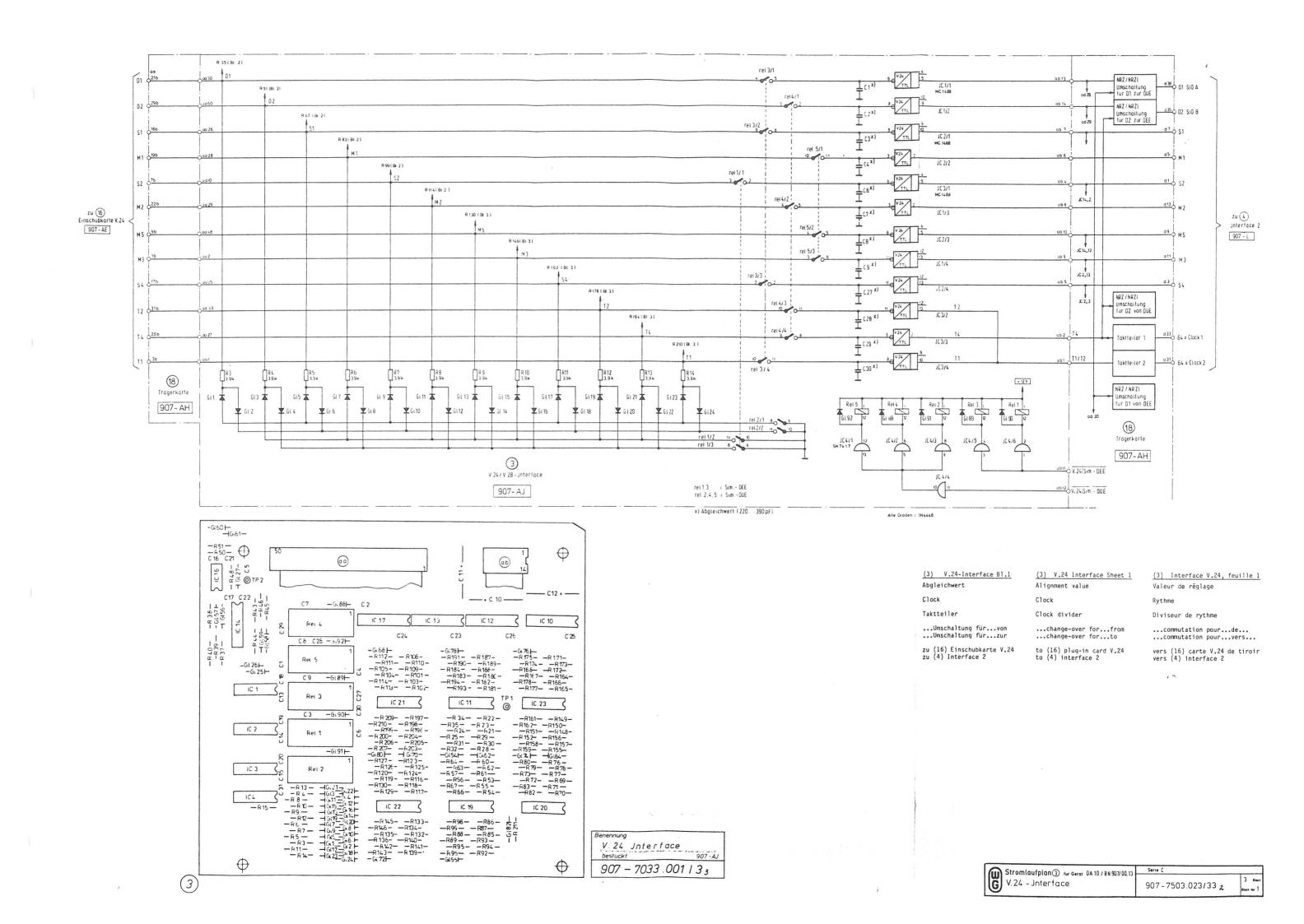
Haupt-u. Nachregler

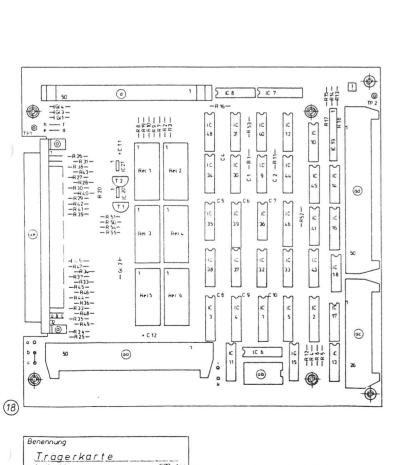
840-7000.003 1 4





Stromlaufplan 2 tur Got	rat. DA - 10 / BN 907	Serie A	Schaltteillist
G Jnterface 1		907 - 1	7502 .011/3



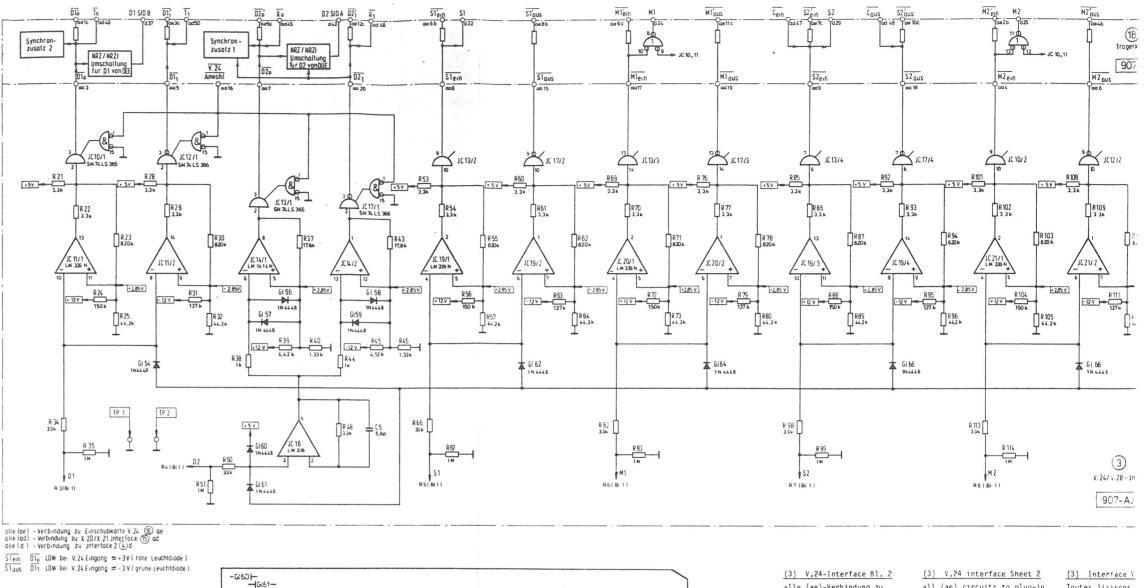


907 - 7032.002133

Bestuckungszeichnung 1 : 1 siehe Seite

Component drawings are 1:1, see Page

Disposition des composants en grandeur reelle, voir page



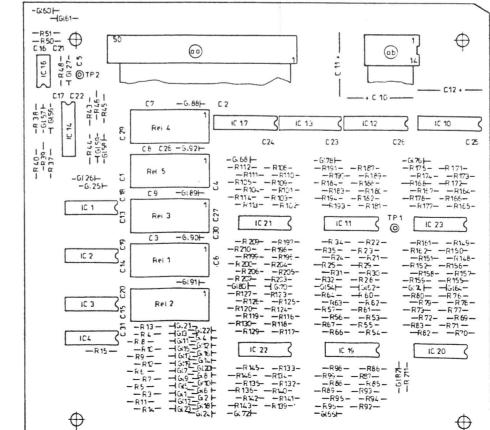
V. 24 Interface

907 - 7033 .001 | 3 3

bestuckt

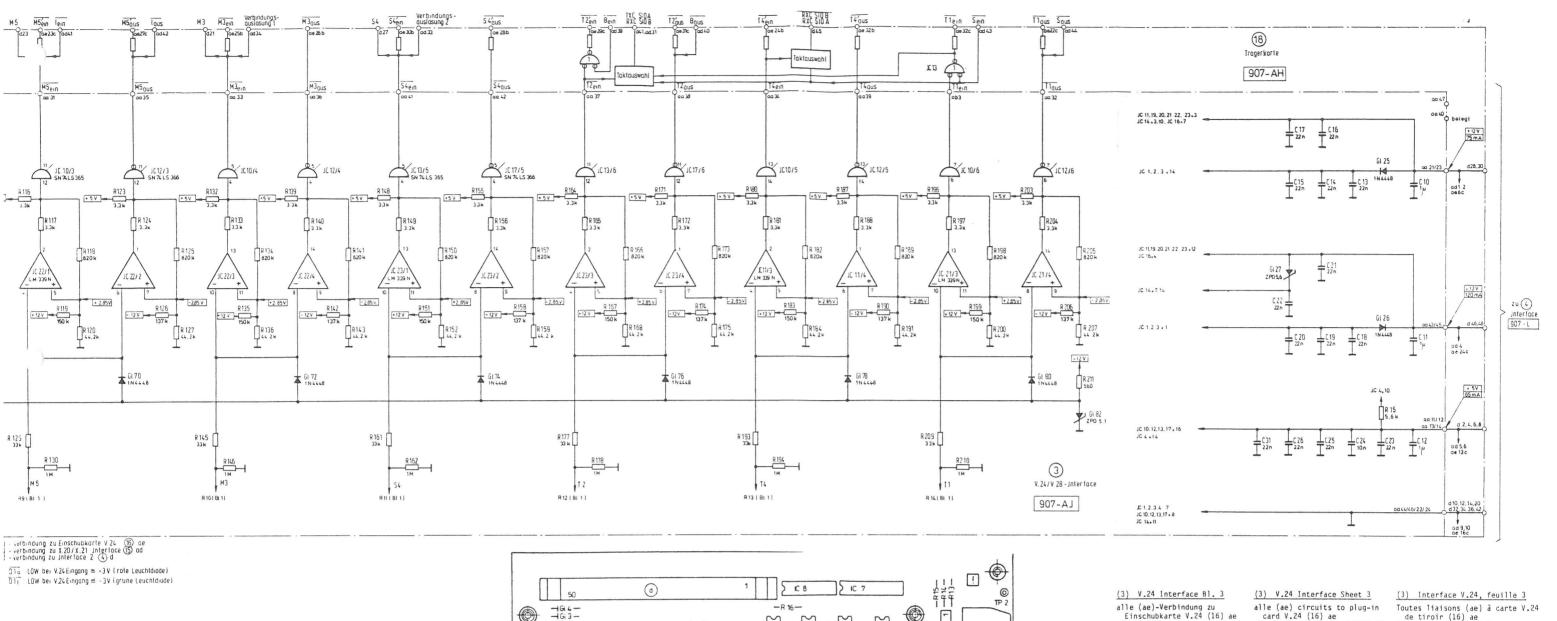
907-AJ

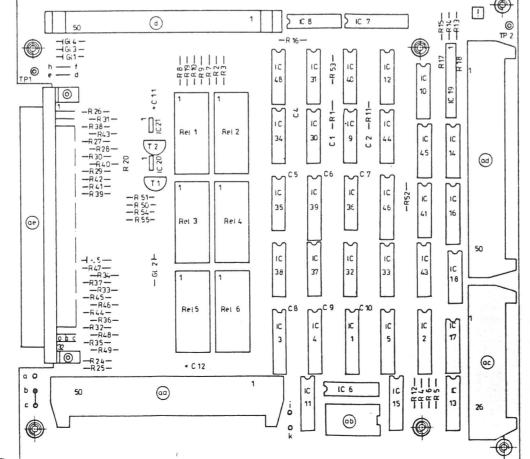
3



all (ae) circuits to plug-in alle (ae)-Verbindung zu Toutes liaisons de tiroir (16)
Toutes liaisons
X.20/X.21 (15)
Toutes liaisons
2 (4) d Einschubkarte V.24 (16) ae alle (ad)-Verbindung zu X.20/X.21 Interface (15) ad card V.24 (16) ae all (ad) circuits to X.20/X.21 interface (15) ad alle (d)-Verbindung zu Interface 2 (4) d all (d) circuits to inter-face 2 (4) d Anwahl Selection Off Sélection Arrēt bei V.24 Eingang with V.24 input avec entrée V.24 Bl. (Blatt) Feuille On ein marche Green LED DEL verte grune Leuchtdiode rote Leuchtdiode Red LED DEL rouge Synchronzusatz Sync, attachment Auxiliaire de s Tragerkarte Mother card Carte support ...Umschaltung fur...von... ...change-over for...from... ... commutation

Stromlaufolan (2) to Comp. BA 10 / BX 00001	Serie (
Stromlaufplan 3) tur Gerat DA-10 / BN 907/0 V. 24 - Interface	907-7503 023





Benennung:

Trägerkarte bestuckt

907 - 7032.00213

Toutes liaisons (ad) à interface X.20/X.21 (15) ad
Toutes liaisons (d) à interface X.20/X.21 (15) ad
Toutes liaisons (d) à interface 2 (4) d
Arrêt alle (ae) circuits to plug-in card V.24 (16) ae all (ad) circuits to X.20/X.21 interface (15) ad all (d) circuits to interalle (ad)-Verbindung zu
X.20/X.21 Interface (15) ad
alle (d)-Verbindung zu face 2 (4) d ..with V.24 input... ...avec entrée V.24... Assembled équipé Diode card Carte de diodes On Marche Green LED DEL verte Parallel wiring Cāblage en parallèle Red LED Clock choice Choix de rythme Circuit release Libération de liaison

Interface 2 (4) d

...bei V.24 Eingang... belegt

bestückt

ein

Diodenkarte

grüne Leuchtdiode

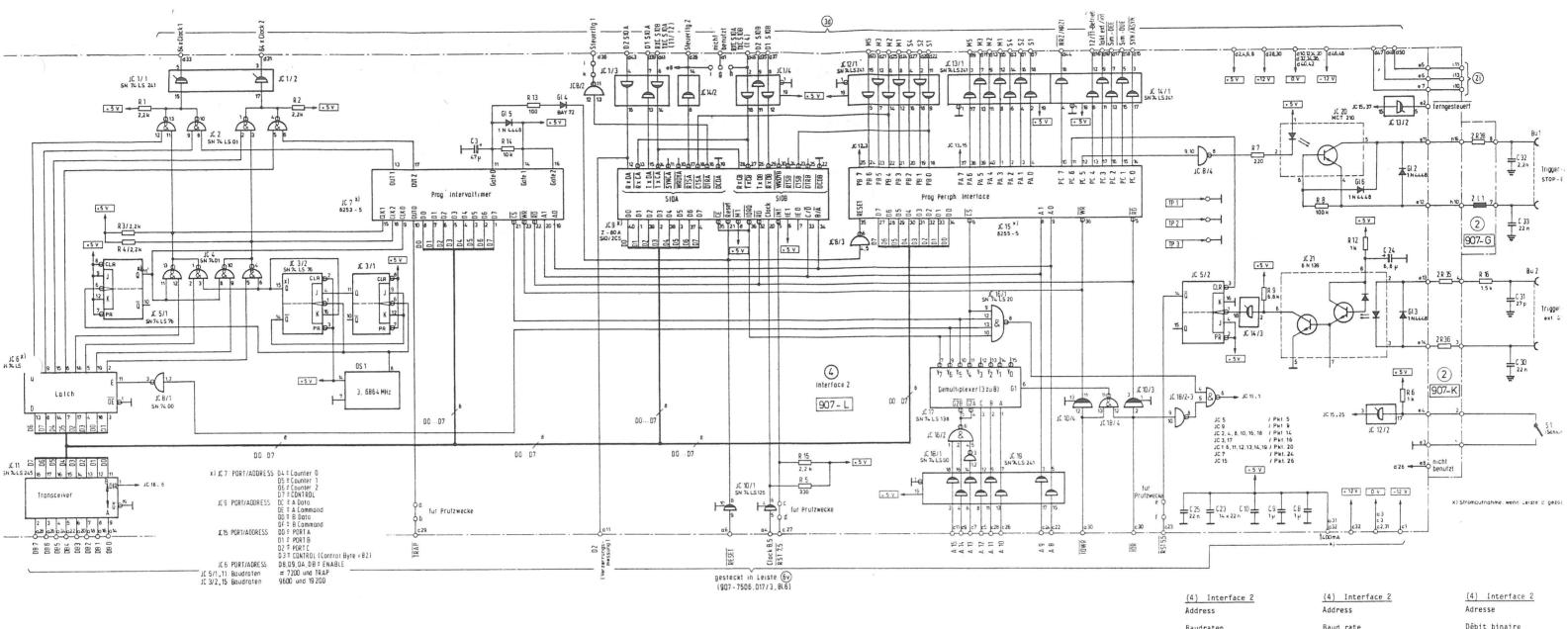
rote Leuchtdiode

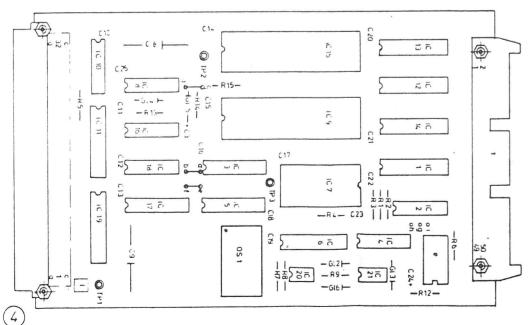
Taktauswahl

Parallelverdrahtung

Verbindungsauslösung

Stromlaufplan (1) Nor Gardt: DA-10/BM 907/00.13
V. 24 - Interface 907 - 7503 . 023 / 33 4

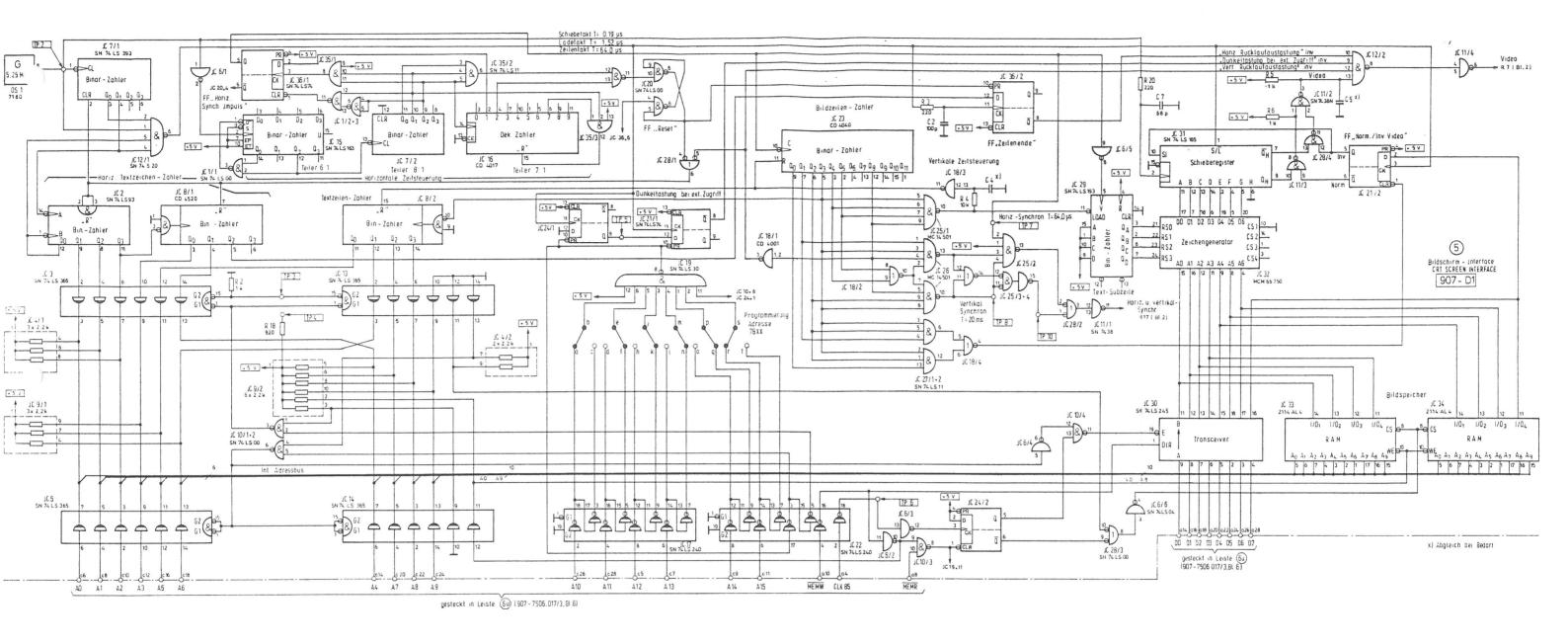


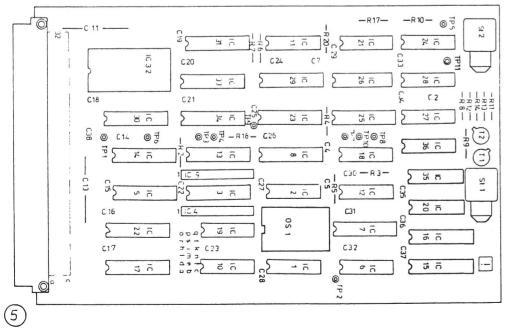


Jnter fo	ace 2	90? - L
907 -	7010	00814

(4) Interrace 2	(4) Incertace L	117 11100111000 2
Address	Address	Adresse
Baudraten Þestückt	Baud rate Assembled	Débit binaire équipé
Clock Command Control Counter	Clock Command Control Counter	Rytme Commande Contrōle Compteur
Data Demultiplexer	Data Demultiplexer	Données Démultiplexeur
ferngesteuert für Prüfzwecke	Remote controlled For test purposes	Télécommandé Pour contrôle
Latch	Latch	Bascule
nicht benutzt	Not used	Non utilisé
Pkt. Port Progr. Intervaltimer Progr. Periph. Interface	Point Port Progr. interval timer Prog. periph. interface	Point Porte Prog. géné. intervalle Prog. interface périph
Reset	Reset	RAZ
Schlüsselschalter Steuertlg.	Keylock switch Control line	Commutateur à clé Ligne de commande
T 1/T 2-Betrieb Takt ext./int. Transceiver Trigger-Ausgang Trigger-Eingang	T 1/T 2-operation Clock ext./int. Transceiver Trigger output Trigger input	Mode T 1/T 2 Rythme ext./int. Emetteur-récepteur Sortie déclenchement Entrée déclenchement
Verzerrungsmessung	Distortion measurement	Mesure de distorsion

Strominutplan () für Geröt: DA-10/ 8N 907	Serie C	Schaltteilliste
Stromlaufplan () für Gerät: DA:10/88907	907 - 75	504.022/33





Bildschirm - Interface 907 - 7003.002143

(5) Bildschirm-Interface Abgleich bei Bedarf Adresse

bestückt Bildschirm-Interface Bildspeicher Bildzeilen-Zähler Binär-Zähler B1. (Blatt)

Dek. Zähler Dunkelaustastung bei ext. Zugriff

gesteckt in Leiste

Horiz. Sychron. Horiz, Synch, Impuls Horiz. Textzeichen-Zähler Horiz. u. Vertikal-Synchr.

Horiz. Rücklaufaustastung inv.

Horizontale Zeitsteuerung Int. Adressbus

(5) CRT screen interface Aligne ewhen necessary Address

Assembled CRT screen interface Digital image storage Image line counter Binary counter

Blanking with external access

Plugged into strip

Horizontal retrace blanking inverted Horizontal sync. Horizontal sync. pulse Horizontal text character counter Horizontal and vertical sync.

Internal address bus

(5) Interface d'écran Réglage si nécessaire Adresse

équipé Interface d'écran Mémoire d'écran Compteur de lignes d'image Compteur binaire

Compteur décadique Blanking à l'accès extérieur

enfiché sur la barrette de

Suppression de retour horizontal inversé Synchronisation horizontale Video Impulsion sync. horizontale

Compteur de caractères de texte horiz.

Sync. horizontale et verticale Commande de durée horizontale Bus d'adresses interne

Ladetakt

Norm./Inv. Video Normal/Inverse video

Programmierung Programming Reset Reset

Schieberegister Shift register Shift clock Schiebetakt

Transceiver Transceiver Divider
Text sub-line
Text line counter Teiler Text-Subzeile Textzeilen-Zähler

Yert. Rücklaufaustastung inv. Vertical retrace blanking inverted
Vertical sync.
Vertical timing control Vertikal. Synchron Vertikale Zeitsteuerung

Zeichengenerator Zeilenende Zeilentakt

Video Character generator End of line Line clock

Loading clock

Rythme de chargement

Video normale/inversée

Programmation

RAZ

Registre à décalage Rythme de décalage

Emetteur-récepteur Diviseur Sous ligne de texte Compteur de lignes de texte

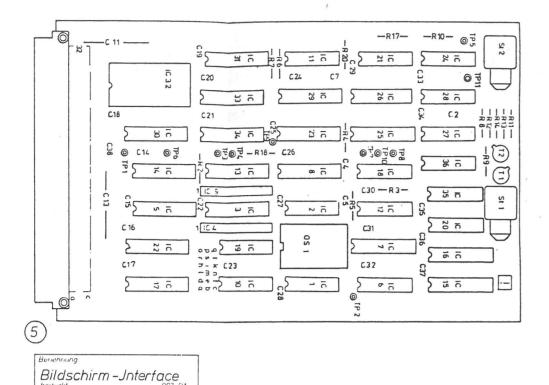
Blanking de temps de retour inversé Sync. verticale Commande en temps vertical

Vidéo Générateur de caractères

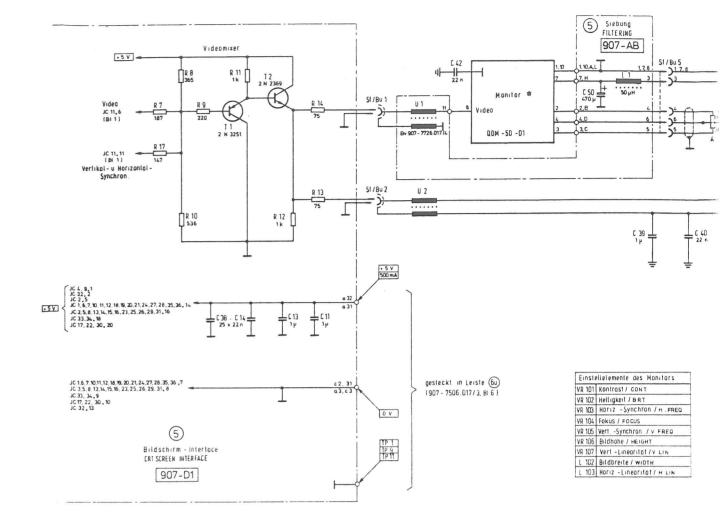
Fin de ligne Rythme de ligne

Stromlaufplan (5) für Gerat: DA-10 / BN907

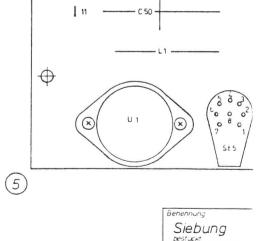
Bildschirm - Interface Serie C ... Schaltteilliste 907 - 7505.021/33 2



907-7003.002143



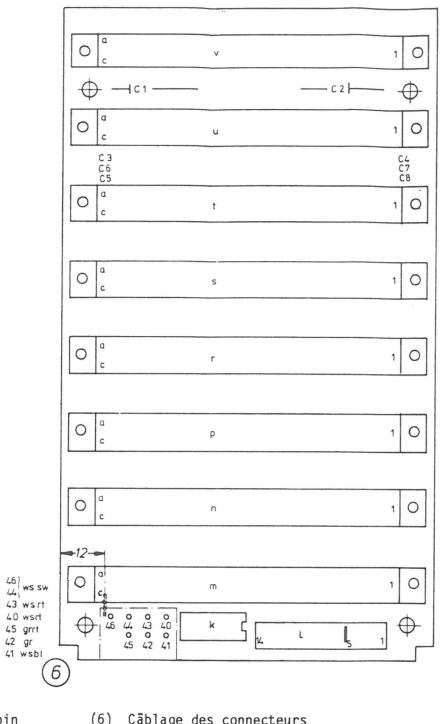
(5) Bildschirm-Interface Bl. 2 (5) CRT screen interface Sheet 2 (5) Interface d'écran, feuille 2 Assembled Sheet équipé Feuille bestückt Bl. (Blatt) enfiché sur la barrette de raccordement gesteckt in Leiste Plugged into strip Intensität Intensity Intensité Monitor Monitor Moniteur Siebung Filtering Filtrage Vertikal- u. Horizontal-Vertical and horizontal sync. Sync. verticale et horizontale Sychron. Video Videoausgang Videomixer Vidéo Sortie vidéo Mélangeur vidéo Video Video output Video mixer



907 - 7026

 Jeweils ausführliche Unterlagen im Zusatz zum Anhang DA-10
 Detailled documentation in additions to DA-10 Appendix
 Documentations détaillées respectives en supplément à l'annexe DA-10

Stromlaufplan (5)	ur Gerät: DA-10 / BN 907	Serie C	Sch
100	- Jnterface	907 -	750



907 - 7001. 004 14₂

Verdrahtungskarte

Benennung.

(6) Buchsen (Leisten)-Belegung (Stromversorgung)

Bildschirm-Interface bestückt

frei

Kassetten-Interface Kassettenrecorder

Netz ein

oder

Speicherkarte

Verdrahtungskarte Verzerrungsmessung

zu den Leisten k bis v

(6) Strip connector pin assignment (power supply)

CRT interface Assembled

Free

Tape cassette interface Cassette tape recorder

A.C. power on

or

Memory card

Wiring card Distortion measurement

to terminal strips k to v

(barrettes) (alimentation)

Interface d'écran équipé

libre

Interface de cassette Enregistreur à cassette

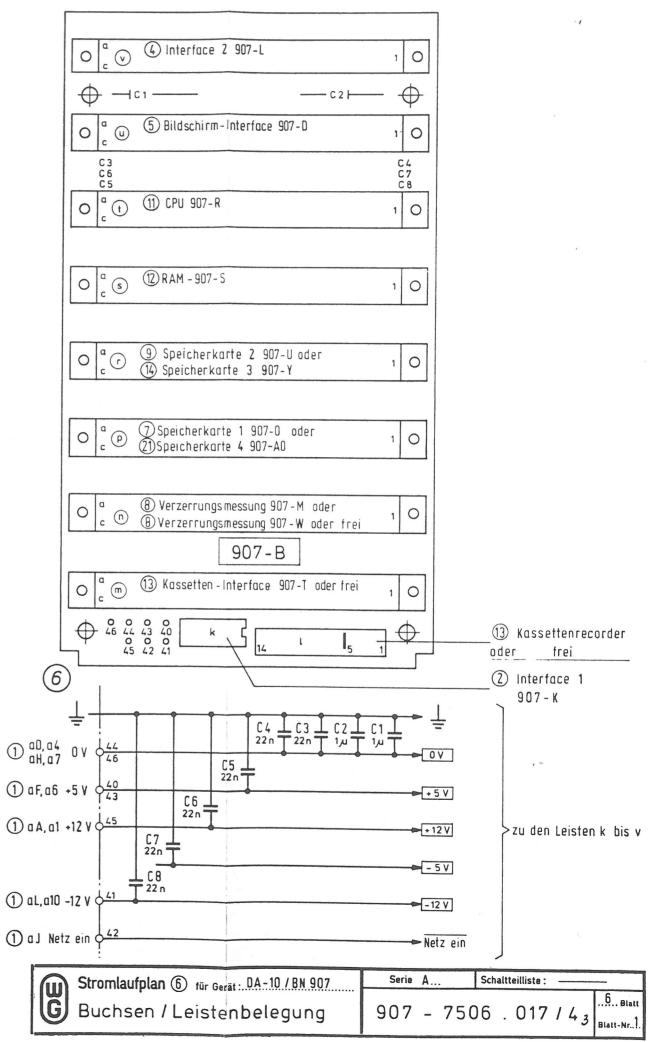
Marche (réseau)

OΠ

Carte mémoire

Carte de câblage Mesure de distorsion

vers les barrettes k à v



Sum of branches

Signal designation	Connection points	within test area	xxx	outside of test area	

Somme des dérivations

Désignation signal	Points de raccordement	dans la zone de contrôle	×××	hors de la zone de contrôle	
		,			

Signalbezeichnung	Summe d. Verzw.	Anschlußpunkte innerhalb Prüfbereich	xxx	außerhalb Prüfbereich
+ 12 V	11	([)1,(k)14,(m)a1,a5,(n)c32,(p)c32,(r)c32,(s)c32,(t)c32,(u)c32,(v)c32	xxx	(6)45,(5)Bu 5/3,(1)aA,a1,(2)kl4
+ 5 V	20	(k)4,5,(m)a3,c3,c17,a28,(n)a31,a32,(p)a31,a32,(r)a31,a32,(s)a31,a32,(t)a31,a32,(u)a31,a32,(v))a31,a32 xxx	(6)40,43,(1)aF,a6,(2)k4,k5
0 V	37	(1)2,3,(k)2,3,(m)a2,c2,a6,a7,c28,(n)c2,c31,(p)c2,c31,(r)c2,c31,(s)c2,c31,(t)c2,c31,(u)c2,c31 (n)a3,c3, (p)a3,c3, (r)a3,c3, (s)a3,c3, (t)a3,c3, (u)a3,c3,		(6)44,46,(5)Bu 5/1,7,8,(1)aD,aH,a4,a7,(2)k2,k3,(m)a31,c31,a32,c32
- 12 V	9	(k)13,(m)c29,(n)c1,(p)c1,(r)c1,(s)c1,(t)c1,(u)c1,(v)c1	xxx	(6)41,(1)aL,a10,(2)k13
- 5 V	9	(k)]],(m)c],(n)a2,(p)a2,(r)a2,(s)a2,(t)a2,(u)a2,(v)a2		

<u>Hinweise</u> (gültig für alle Buchsen- und Leisten-Belegungen)

- (5) 3 bzw. (D) R bedeutet: Stromlaufplan 5 Pkt. 3 bzw. Karte D Pkt. R
 Kontakt-Nr. Ā (Amphenol) ≜ AA (Valvo)
 I Summe der Verzweigungen innerhalb des
- Prüfbereichs 6.) II Laufende Meßpunktnummern für den Kartenbett-Prüfautomat

Notes (valid for all connector and connector strip arrangements)

- "(5) 3" or "(D) R" means: circuit diagram
 "5 point 3" or "card D point R" resp.
 Contact No. A (Amphenol) = AA (Valvo)
- 5.) I sum of the deviations within the test area
- 6.) II consecutive test point numbers for the card rack in automatic tester

 $\frac{\textit{Remarques}}{\textit{prises et}} \; \; (\textit{valables pour le brochage de toutes les} \\ \frac{\textit{Prises et}}{\textit{proches}})$

- 1.) Serienindizes der gedruckten Schaltung (z. B. 408-Z 1) werden nicht nachgetragen 408-Z 1) werden nicht nachgetragen 408-Z 1) are not carried along (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. 408 Z 1) ne sont pas portés (par ex. vers (7) 1 ou Bu SK 1 respectivement
 3.) (5) 3 ou (D) R signifie: schema de principe

 - 5 point 3 ou carte D point R 4.) Contact-No. Ā (Amphenol) ≘ AA (Valvo)
 - 5.) I Somme des dérivations dans la zone de contrôle
 - 6.) II Numéro des points de mesure pour le système automatique de contrôle du support de cartes

Jugnal designation	outside of testarea Connectio	n points within test area	I	I	0	II	within test area Connection	points outside of test area	Signal designation	
										1
	Points de raç	cordement					Points de ra	ccordement		Barrette
Désignation signal	hors de la zone de contrôle	dans la zone de contrôle	I	I	0	II	dans la zone de contrôle	hors de la zone de contrôle	Désignation signal	
										10

Signalbezeichnung	außerhalb Prüfbereich Anschlußpunkte innerhalb Prüfbereich	I	II			I	II	innerhalb Prüfbereich Anschlußpunkte außerhalb Prüfbereich Signalbezeichnung	
ר ס (מאד) ו	. (m)c26	2	14	8		7		(n) a9,(p) a9,(r) a9,(s) a9,(t) a9,(u) a9,(v) a9	k
D 2 (RXD)	(m)c25	2	13	9	E	6	6 1	xxx (6)42,(1)aJ Netz ein	
S 2 (RTS)	(m)c27	2	12	10		5	5 20	siehe Blatt 2 + 5 V	
- 5 V	siehe Blatt 2	9	11	11		4	4 20	siehe Blatt 2 + 5 V	
M 2 (CTS)	(m)c30	2	10	12	2 ;	3	3 37	siehe Blatt 2 0 V	
- 12 V	siehe Blatt 2	9	9	13	3 2	2	2 37	siehe Blatt 2 O V	
+ 12 V	siehe Blatt 2	11	8	14		1	1 2	(m)c24 S 1 (DIR)	

<u>Hinweise</u> (gültig für alle Buchsen- und Leisten-Belegungen)

- 1.) Serienindizes der gedruckten Schaltung (z. B. 408-Z 1) werden nicht nachgetragen
 2.) (5) $3x\bar{x}$ (7) 1 bzw. (B) 55xxx Bu SK 1 bedeutet: Leitung verläßt bei (5) 3 bzw. (B) 55 den Prüfbereich und führt nach (7) 1 bzw. Bu SK 1

 1.) Series indexes of the printed circuits (e.g. 408-Z 1) are not carried along
 2.) "(5) $3x\bar{x}$ (7) 1" or "(B) $55xx\bar{x}$ Bu SK 1" means conductor leaves the test area at (5) 3 or (B) 55 and is routed to (7) 1 or Bu SK 1 resp
-)) (5) 3 bzw. (D) R bedeutet: Stromlaufplan 5 Pkt. 3 bzw. Karte D Pkt. R 4.) Kontakt-Nr. Ā (Amphenol) ≘ AA (Valvo)
- 5.) I Summe der Verzweigungen innerhalb des Prüfbereichs
- 6.) II Laufende Meßpunktnummern für den Kartenbett-Prüfautomat

Notes (valid for all connector and connector strip arrangements)

- 408-Z 1) are not carried along
 2.) "(5) 3xxx (7) 1" or "(B) 55xxx Bu SK 1" means: conductor leaves the test area at (5) 3 or (B) 55 and is routed to (7) 1 or Bu SK 1 resp.
- "(5) 3" or "(D) R" means: circuit diagram
 point 3" or "card D point R" resp.
 Contact No. Ā (Amphenol) AA (Valvo)
- 5.) I sum of the deviations within the test area
- 6.) II consecutive test point numbers for the card rack in automatic tester

 $\frac{\textit{Remarques}}{\textit{prises et}} \; \; (\textit{valables pour le brochage de toutes les}$

- Les indices de série des circuits imprimés (par ex. 408 Z 1) ne sont pas portés
 (5) 3xxx (7) 1 ou (B) 55xxx Bu SK 1 signifient que la ligne quitte en (5) 3 ou (B) 55 respectivement la zone de contrôle et conduit vers (7) 1 ou Bu SK 1 respectivement
 (5) 3 ou (D) R signifie: schéma de principe 5 point 3 ou carte D point R
 Contact-No. Ā (Amphenol) = AA (Valvo)
 I Somme des dérivations dans la zone de contrôle

- contrôle
- 6.) II Numéro des points de mesure pour le système automatique de contrôle du support de cartes

O Blatt

Signal designation	outside of test area Connection	on points	within test area	I	I	0	П	I	within test area Connection	points outside of test area	Signal designation	
	Points de ra	cordement	:						Points de ra	ccordement		Barrette
Désignation signal	hors de la zone de contrôle	dans la zi	one de contrôle	I	I	0	I	I	dans la zone de contrôle	hors de la zone de contrôle	Désignation signal	

Signalbezeichnung	außerhalb Prufbereich Anschlußpunkte innerhalb Prüfbereich	I	II			II	I	innerhalb Prüfbereich Anschlußpunkte außerhalb Prüfbereich	Signalbezeichnung	
				7	1	3:				
		/			14	14	2	(n) 16	MEN	1
					13	13	.2	(m) 15	CIP	
					12	12	2	(n) 14	RDA	
					11	11	2	(m) 13	RDC	
					10	10	2	(m) 12	FWD	
					9	9	2	(m)11	REV	
					8	8	2	(m) 10	WCD	
					7	7	2	(m) 9	BET	
					6	6	2	(m) 8	WDA	
					5	5	1		frei	
					4	4	1		frei	
					3	3	37	siehe Blatt 2	0 V	
					2	2	37	siehe Blatt 2	0 V	
			T	T	1	1	11	siehe blatt 2	+ 12 V	

Hinweise (gültig für alle Buchsen- und Leisten-Belegungen)

- 1.) Serienindizes der gedruckten Schaltung (z. B. 408-Z 1) werden nicht nachgetragen
 2.) (5) 3xxx (7) 1 bzw. (B) 55xxx Bu SK 1 bedeutet: Leitung verläßt bei (5) 3 bzw. (B) 55 den Prüfbereich und führt nach (7) 1 bzw. Bu SK 1

 1.) Series indexes of the printed circuits (e.g. 408-Z 1) are not carried along
 2.) "(5) 3xxx (7) 1" or "(B) 55xxx Bu SK 1" means conductor leaves the test area at (5) 3 or (B) 55 and is routed to (7) 1 or Bu SK 1 resp
- (5) 3 bzw. (D) R bedeutet: Stromlaufplan 5 Pkt. 3 bzw. Karte D Pkt. R
 Kontakt-Nr. Ā (Amphenol) ≜ AA (Valvo)
 I Summe der Verzweigungen innerhalb des Prüfbereichs
- 6.) II Laufende Meßpunktnummern für den Kartenbett-Prüfautomat

Notes (valid for all connector and connector strip arrangements)

- 6.) II consecutive test point numbers for the card rack in automatic tester

Remarques (valables pour le brochage de toutes les prises et broches)

- 1.) Series indexes of the printed circuits (e.g. 408-Z 1) are not carried along
 2.) "(5) 3xxx (7) 1" or "(8) 55xxx Bu SK 1" means: conductor leaves the test area at (5) 3 or (B) 55 and is routed to (7) 1 or Bu SK 1 resp.

 3.) "(5) 3" or "(D) R" means: circuit diagram "5 point 3" or "card D point R" resp.

 4.) Contact No. Ā (Amphenol) ≜ AA (Valvo)
 5.) I sum of the deviations within the test area

 1.) Les indices de série des circuits imprimés (par ex. 408 Z 1) ne sont pas portés

 2.) (5) 3xxx (7) 1 ou (B) 55xxx Bu SK 1 signifient que la ligne quitte en (5) 3 ou (B) 55 respectivement la zone de contrôle et conduit vers (7) 1 ou Bu SK 1 respectivement
 3.) (5) 3 ou (D) R signifie: schéma de principe 5 point 3 ou carte D point R
 4.) Contact No. Ā (Amphenol) ≜ AA (Valvo)
 5.) I Somme des dérivations dans la zone de contrôle

 - contrôle
 - 6.) II Numéro des points de mesure pour le système automatique de contrôle du support de cartes

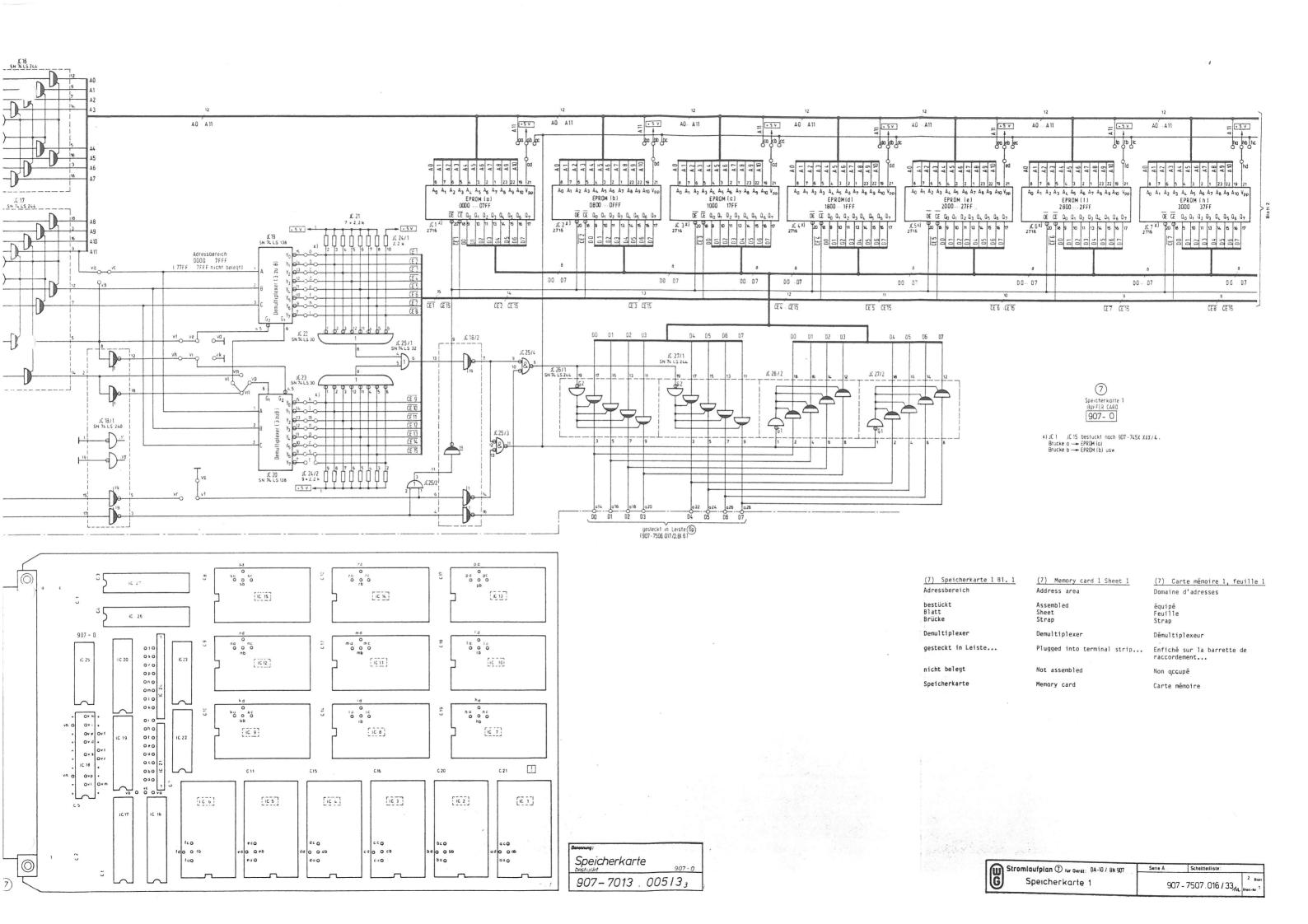
ignal designation	outside of test area Connecti	on points within test area	I	I	0	I	I	within test area Connection points outside of test area	Signal designation	1
-								·		\Box
	Points de ro	ccordement						Points de raccordement		Barr
ésignation signal	hors de la zone de contrôle	dans la zone de contrôle	I	I	0	I	I	dans la zone de contrôle hors de la zone de contrôl	e Désignation signal	
										1
Signalbezeichnung	außerhalb Prüfbereich Ansc	Nußpunkte innerhalb Prüfbereich	I	II		II		innerhalb Prüfbereich Anschlußpunkte außerhalb Prüfbereich	Signalbezeichnung	
0 V	danemato i i discretori 7 17 301	siehe Blatt 2	-		c 32 d	+	4	siehe Blatt 2	0 V	m
0 V		siehe Blatt 2	-	95	31	31	-	siehe Blatt 2	0 V	┤ '''
(C12)		(k) 12	2	94	30	30	1		belegt	
- 1? V		siehe Blatt 2	9	93	29	29	1		belegt	
0 V		siehe Blatt 2	37	92	28	28	20	siehe Blatt 2	+ 5 V (CIP) 2	
RTS		(k)10	2	91	27	27	1		belegt	
D 1 (Tx)		(k)8	2	90	26	26	1		belegt	
D 2 (Rx)		(k)9	2	89	25	25	1		belegt	
DTR		(k)1	2	88	24	24	1		belegt	
belegt			1	87	23	23	1		belegt	
belegt			1	86	22	22	1		belegt	
belegt			1	85	21	21	1		belegt	
belegt			1	84	20	20	1		belegt	
belegt			1	83	19	19	1		belegt	
belegt			1	82	18	18	1		belegt	
+ 5 V (OFF LINE)		siehe Blatt 2	13	81	17	17	1		frei	
belegt			1	80	16	16	2	(1)14	WEN	
frei			1	79	15	15	2	(L)1 3	CIP)	
frei			1	78	14	14	2	(1)12	RDA	
be1egt			1	77	13	13	2	(1)11	RGC	
belegt			1	76	12	12	2	(1)10	FWD	
belegt			1	75	11	11	2	(1) 9	REV	
belegt			1	74	10	10	2	(1) 8	WCD	
belegt			1	73	9	9	2	(1) 7	BET	
belegt			1	72	8	8	2	(1) 6	WDA	
belegt			1	71	7	7	37	siehe Blatt 2	0 V	
belegt			1	70	6	6	37	siehe Blatt 2	0 V	
frei			. 1	69	5	5	11	siehe Blatt 2	+ 12 V	
frei			1	68	4	4	8	(n)a6,(p)a6,(r)a6,(s)a6,(t)a6,(u)a6,(v)a6	RESET	
+ 5 V		siehe Blatt 2		67	3	3	20	siehe Blatt 2	+ 5 V	
0 V		siehe Blatt 2	37	66		_	37	siehe Blatt 2	0 V	`
- 5 V		siehe Blatt 2	9	65	c 1 c	1 1	11	siehe Flatt ?	+ 12 V	

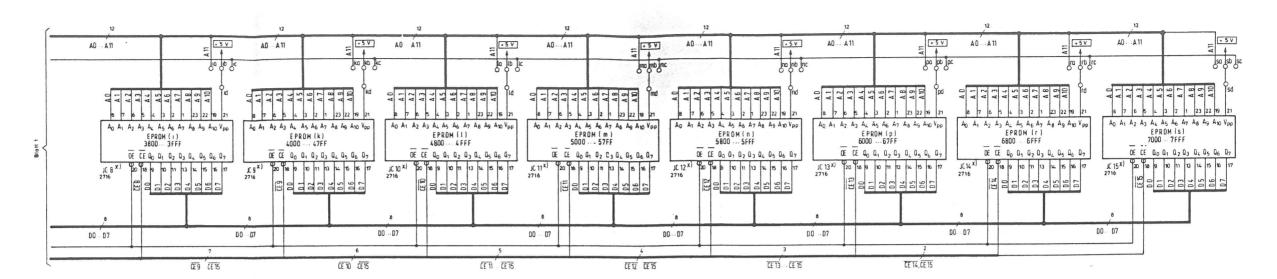
Buchsen (Leisten) - Belegung (Kassetten - Interface)

907 - 7506.017 2

	Points de ra	ccordement						Points de ra	cordement	Edge	Barrett
Désignation signal	hors de la zone de contrôle	dans la zone de contrôle	I	I	0	I	II	dans la zone de contrôle	hors de la zone de contrôle	Désignation signal	T
•						1	1				一 connecto
Signal designation	outside of test area Connecti	on naints within test area	T	T		I	TT	within test area Connection	points nutside of test area	Signal designation	
<u>g</u>	The state of the s	on points within test area	1	1	10	1-	- 1	William lest died commection	points outside of test died	- Signal designation	→ '
Signalbezeichnung	außerhalb Prüfbereich Ansch	Nunpunkte innerhalb Prüfbereich	I	II		II		innerhalb Prüfbereich Anschluß	Spunkte außerhalb Prüfbereich	Signalbezeichnung	n, p
+ 12 V		siehe Blatt 2	11	96	c 32	0 3	2 20	siehe Blatt 2		+ 5 V	r, s
0 V		siehe Blatt 2	37	95	31	31	1 20	siehe Blatt 2		+ 5 V	t, u
TOR		*.	7	94	30	30	0 7	•		IOW	
TRAP			7	93	29	2	9 7			belegt	
A 11			7	92	28	28	8 7			DB 7	
RST 7,5			7	91	27	2	7 7			belegt	
A 10			7	90	26	20	6 7			DB 6	
belegt			7	89	25	25	5 7			BUSEN	
A 9			7	88	24	24	4 7			DB 5	
RST 5,5			7	87	23	23	3 7			INTA	
A 8			7	86	22	2:	2 7			DB 4	
belegt			7	85	21	21	1 7			frei	
A 7			7	84	20	20	0 7			DB 3	
belegt			7	83	19	19	9 7			INT	
A 6			7	82	18	18	3 7			DB 2	
belegt			7	81	- 17	11	7 7			HOLD	
A 5			7	80	16	10	6 7			DB 1	
belegt			7	79	15	15	5 7			HL DA	
A 4			7	78	14	14	4 7			DB O	
S00			1	77	13	1.	3 7			BUSEN	
A 3			7	76	12	1:	2 7			RDYIN	
A 15			7	75	11	1	1 7'			Empfangsdaten D 2	
A 2			7	74	10	10	0 7			MEMW	
A 14			7	73	9	9	8	(k)7		RESIN	
A 1			7	72	8	8	3 7			MEMR	
A 13			7	71	7	7	7 7			ALE	
A 0			7	70	6	6	8 6	(m)a4		RESET	
A 12			7	69	5	5	7			belegt	
M410			7	68	4	4	. 7			CLK 85	
0 Y		siehe Blatt 2	37	67	3	3	3 37	siehe Blatt 2		0 V	
0 V		siehe Blatt 2	37	66	2	2	9	siehe Blatt 2		- 5 V	
- 12 V		siehe Blatt 2	9	65	c 1	a 1	7			frei	

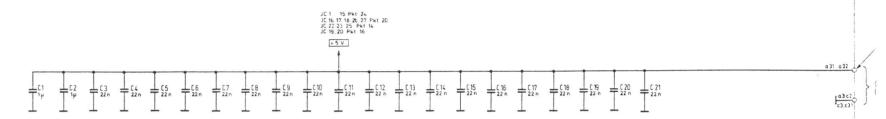
	Stromlaufplan 6 für Gerät DA - 10 / BN 907	Serie A	Schaltteilliste:	
G	Stromlaufplan 6 für Gerät DA - 10 / BN 907 Buchsen (Leisten) - Belegung (Mikroprozessor - Bus)	907 - 75	06.017/3 ₁	Blatt-Nr.



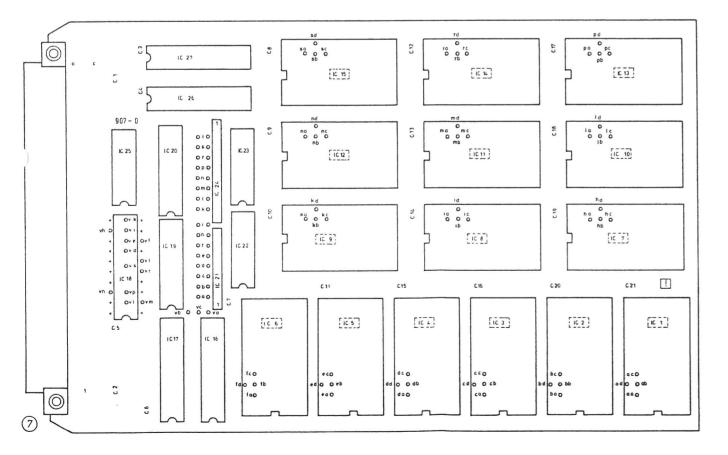


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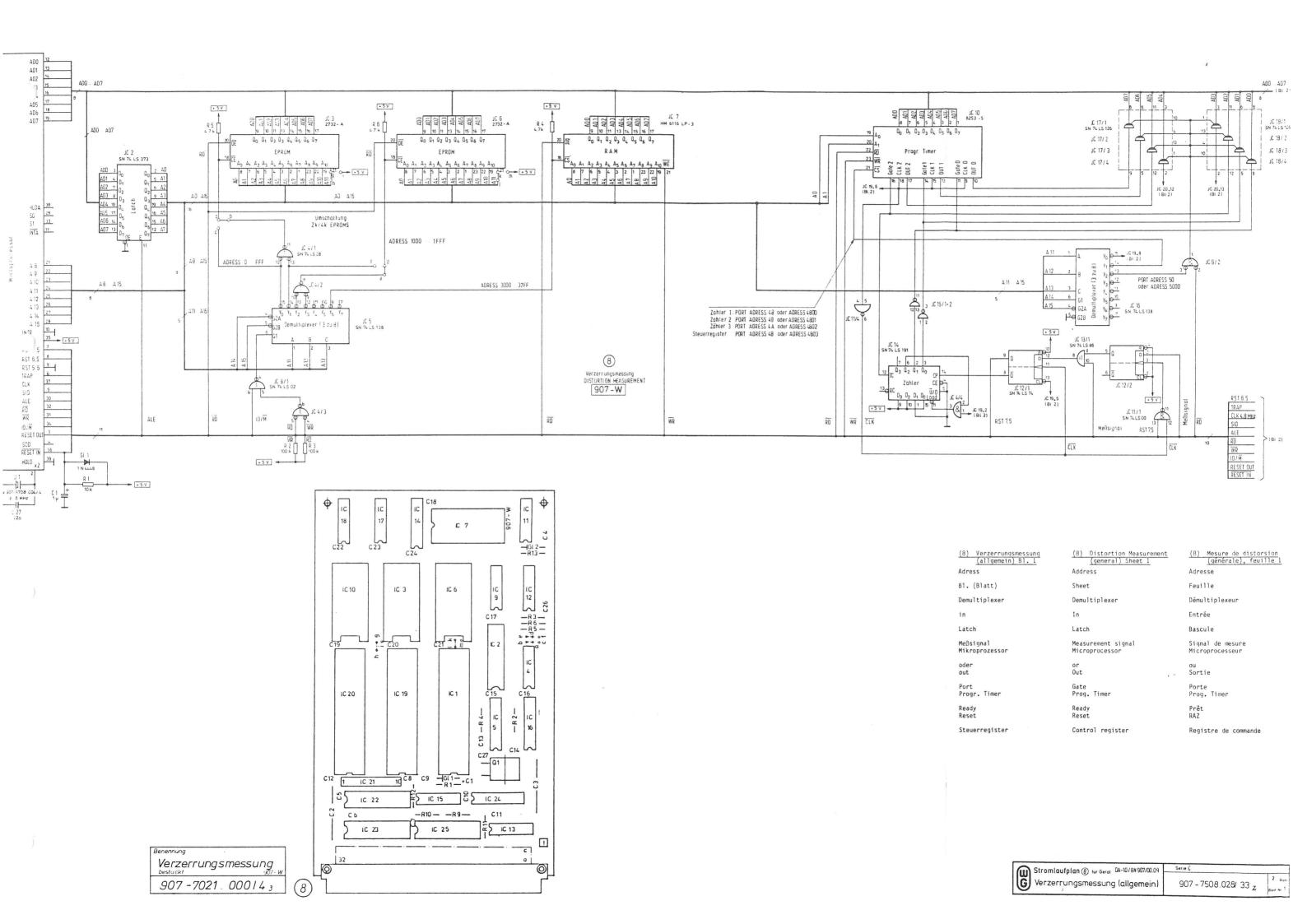
Speicherkarte 1 BUFFER CARD 907- 0

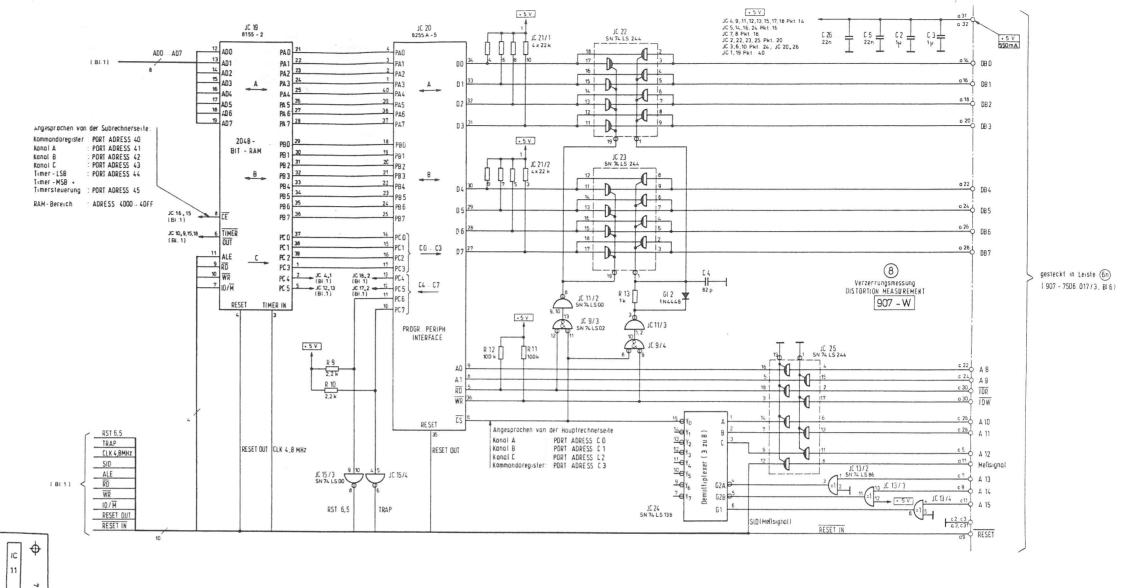


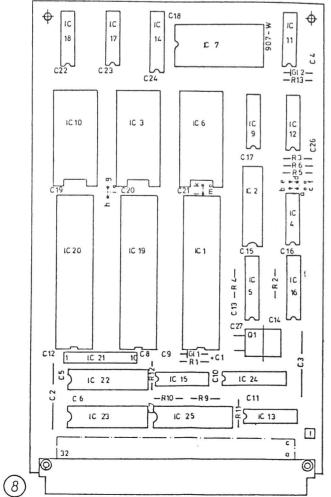
x) JC 1 JC 15 bestuck! nach 907 - 745x XXX /4



Stromlaufplan (1) tur Gerat: DA-10/ BN 907 Serie A. Schol
Speicherkarte 1 907 - 7507







(8) Verzerrungsmessung (allgemein) Bl. 2 Adress Angesprochen von der Haupt- rechnerseite Angesprochen von der Sub- rechnerseite	(8) Distortion Measurement (general) Sheet 2 Address Addressed by the central computer side Addressed by the sub-computer side	(8) Mesure de distorsion (generale), feuille 2 Adresse Adressé par le calculateur principal Adressé par le calculateur secondaire
bestückt Bl. (Blatt)	Assembled Sheet	équipé Feuille
Demultiplexer	Demultiplexer	Démultiplexeur
gesteckt in Leiste	Plugged into terminal strip	Enfiché sur la barrette de raccordement
in	In	Entrée
Kanal Kommandoregister	Channel Command register	voie Registre de commande
Meßsignal	Measurement signal	Signal de mesure
out	Out	sortie
Pkt. Port Progr. Periph. Interface	Point Port Prog. Peripheral Interface	Point Porte Interface prog. périphérique
RAM-Bereich Reset	RAM area Reset	Domaine de RAM RAZ
Timer Timersteuerung	Timer Timer control	Rythmeur Commande de rythmeur

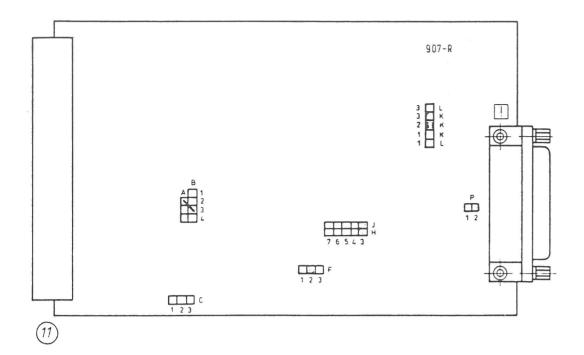
Distortion measurement

Verzerrungsmessung

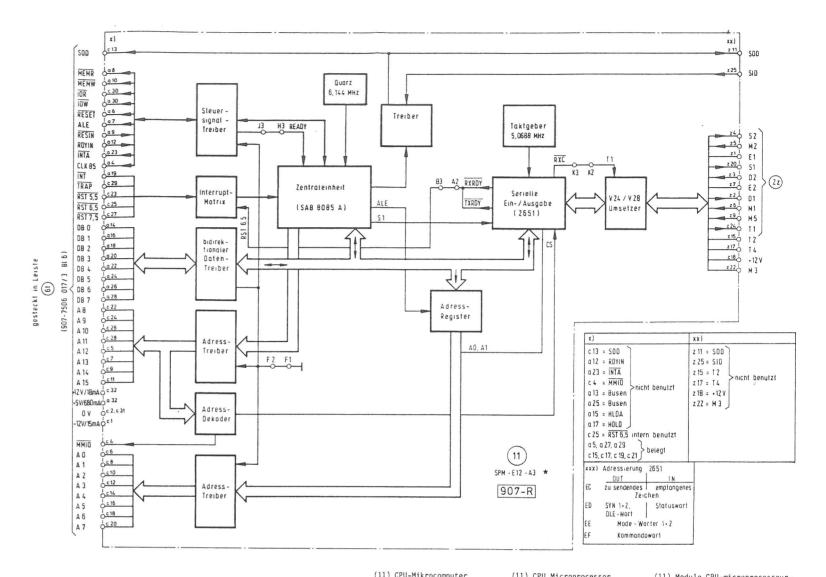
<u></u>	Stromlaufolan (8) tur Gerat	DA-10/BN 907/00 09	Serie [Schaltteilliste:	
G	Stromlaufplan (a) tur Gerat. DA-10/BN 907/00 09 Verzerrungsmessung(allgemein)		907 - 7508 . 028/ 34 4		2 Blatt

Mesure de distorsion

ernungsmessung erzerrungsmessung estuckt 977-707-7021.000143



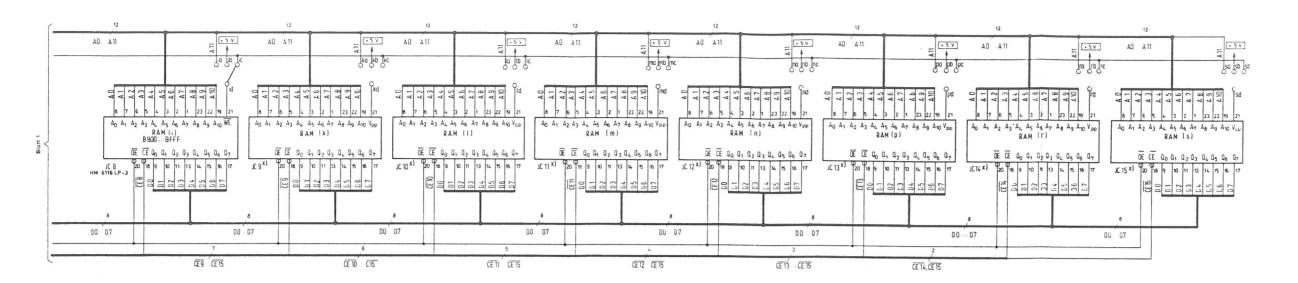
Banennung: SMP-E12-A3 bestuckt 907-R 907-7016.002134



(11) CPU-Mikrocomputer Baugruppe SMP-E-12-A3 (11) CPU Microprocessor Sub-assembly SMP-E-12-A3 (11) Module CPU-microprocesseur-SMP-E-12-A3 Adress-Decoder Addresss decoder Décodeur d'adresses Addressing Address register Address driver Adressierung Adressage Registre d'adresses Adress-Register Adress-Treiber belegt bestückt Occupied Assembled
Bi-Directional data driver
Busses équipé Driver de données bidirectionnel bidirektionaler Daten-Treiber empfangenes Zeichen Received characters Caractères reçus Enfiché sur la barrette de raccordement gesteckt in Leiste Plugged into terminal strip Entrée Usage interne Matrice d'interruption in intern benutzt Used internally Interrupt Kommandowort Command word Mot de commande Mode-Wörter Mode words Mots de mode nicht benutzt Non utilisé out Out Sortie Quarz Quartz crystal Quartz Reset RAZ Serielle Ein-/Ausgabe Serial input/output Status word Control signal driver Entrée/sortie série Mot d'état Driver signal de commande Statuswort Steuersignal-Treiber Taktgeber Treiber Clock pulses Driver Générateur de rythme Umsetzer Converter Convertisseur Wort Word Zentraleinheit zu sendendes Zeichen Central unit To transmitted character Unité centrale vers les caractères émis

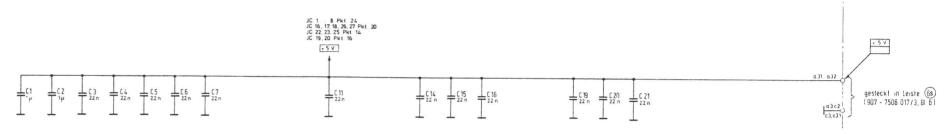
* Jeweils ausführliche Unterlagen im Zusatz zum Anhang DA-10
Detailled documentation in additions to DA-10 Appendix
Documentations détaillées respectives en supplément à l'annexe DA-10

Stromlaufplan (1) tür Gerat: DA-10 / RN 907	Serie A	Schaltteilliste. —	
Stromlaufplan (1) für Gerat: DA-10 / BN 907 CPU - Mikrocomputer - Baugruppe SMP - E12 - A3	907 - 7511 . 015 / 3 3		1 Blatt Blatt-Nr 1



RAM-Karte RAM-CARD

x) JC 9 bis JC 15 nicht bestuckt !



(12) RAM-Karte Bl. 2

RAM-Karte

B1. (Blatt)

Sheet

Feuille

gesteckt in Leiste

Plugged into terminal strip

nicht bestückt

Not assembled

Point

Point

Feuille

Enfiché sur la barrette de raccordement

non équipé

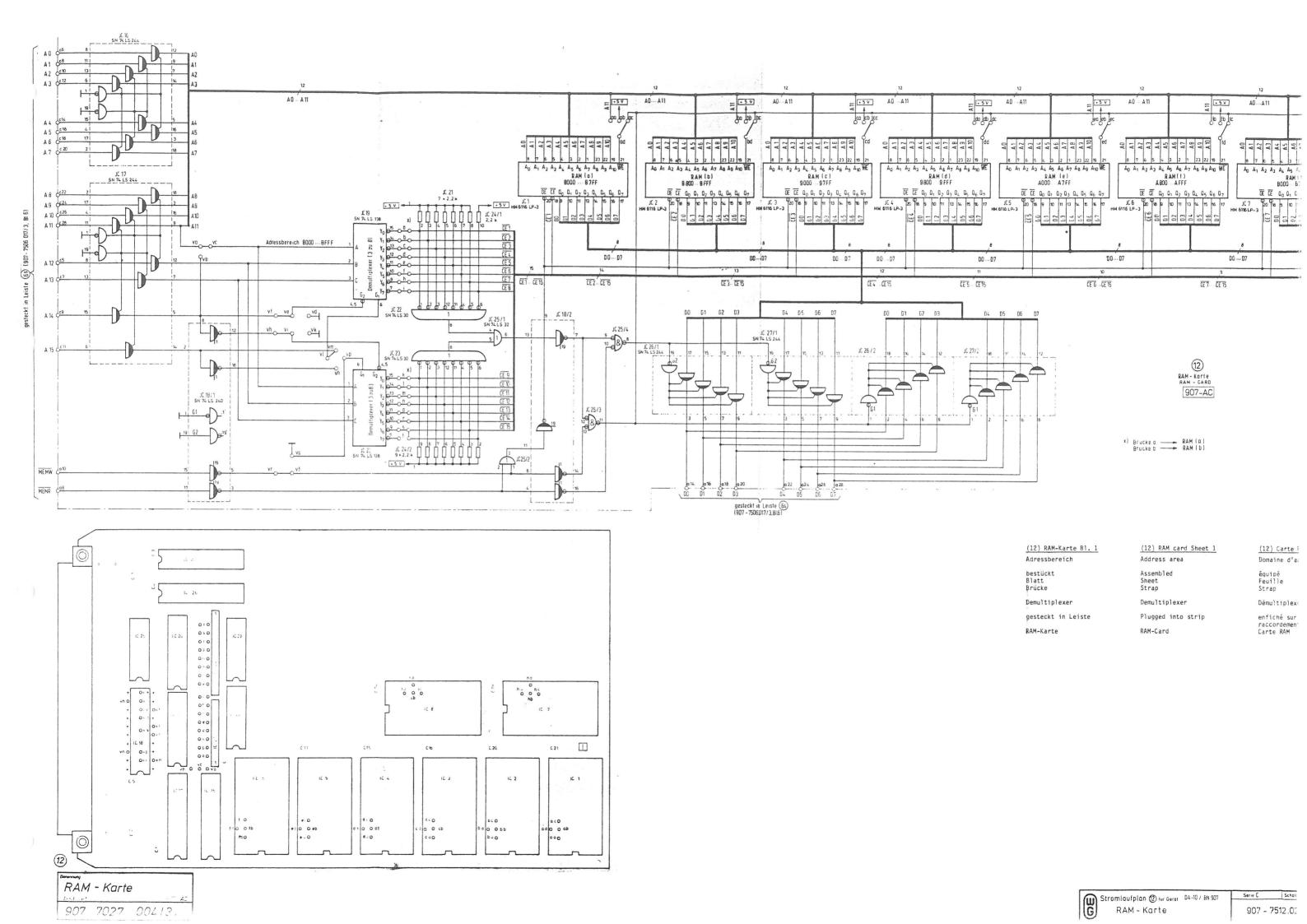
Point

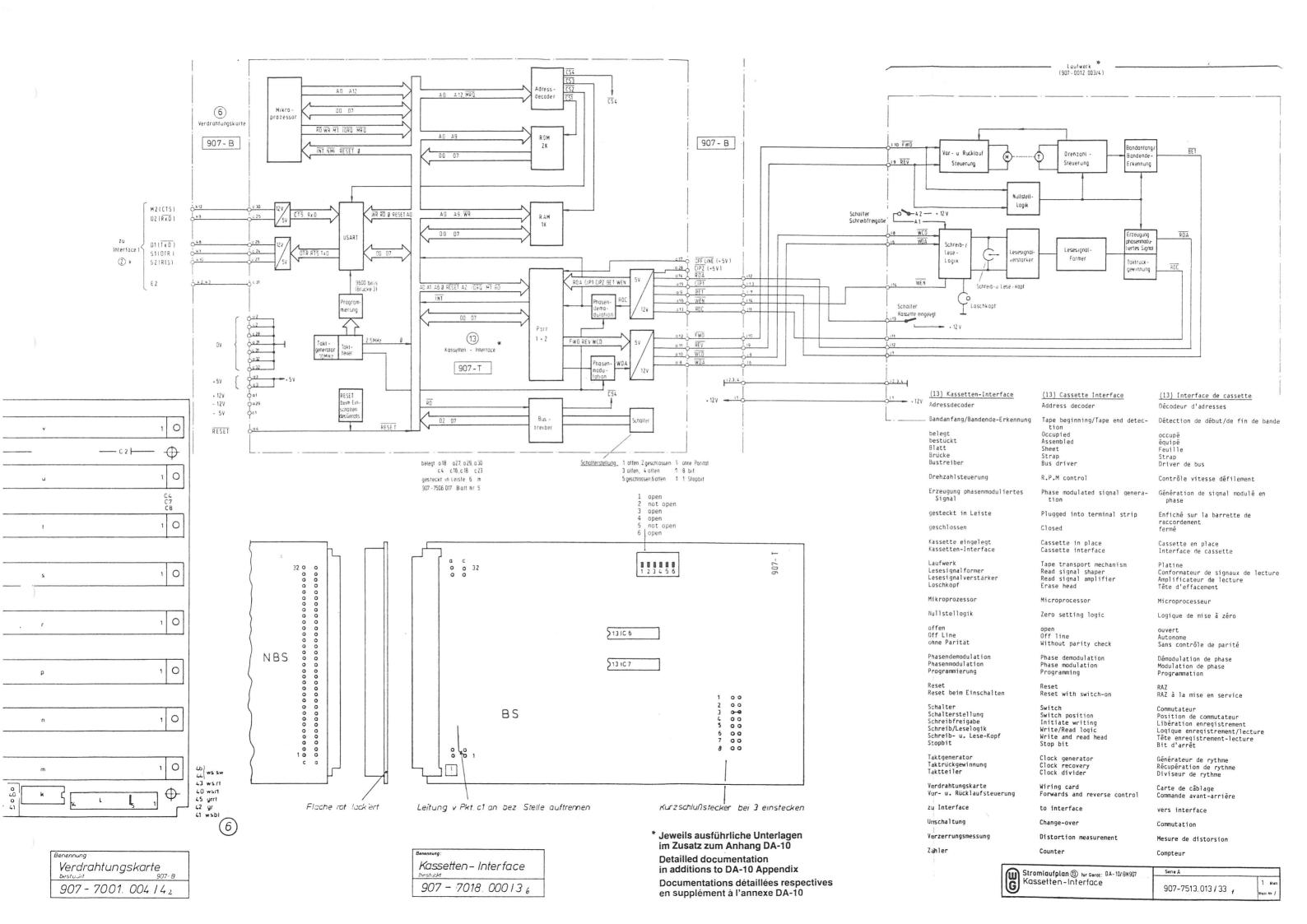
RAM-card

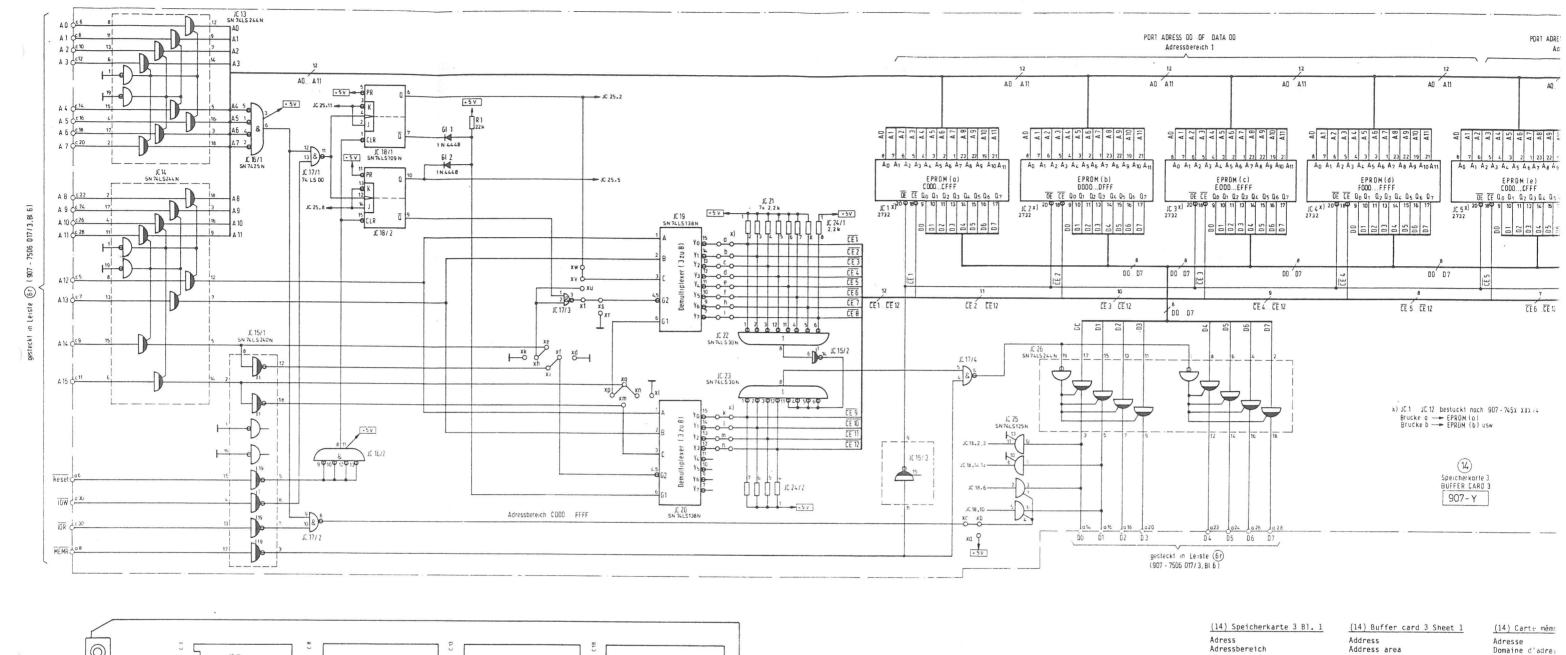
(12) RAM card Sheet 2

(12) Carte RAM, feuille 2

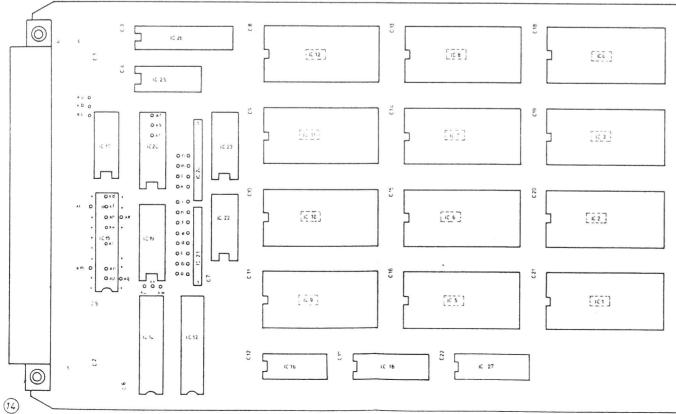
Carte RAM







907 - 7023.008134



Speicherkarte 3

Blatt

Port

Reset

bestückt bestückt nach Brücke

Data Demultiplexer

Speicherkarte

gesteckt in Leiste

Stromlaufplan W fur Geral DA-10/BN 907	Serie [+ D
Speicherkarte 3	907 - 7514

Sheet

Reset

Buffer card

Assembled Assembled according to Strap

Plugged into terminal strip

Data Demultiplexer Feuille

Porte

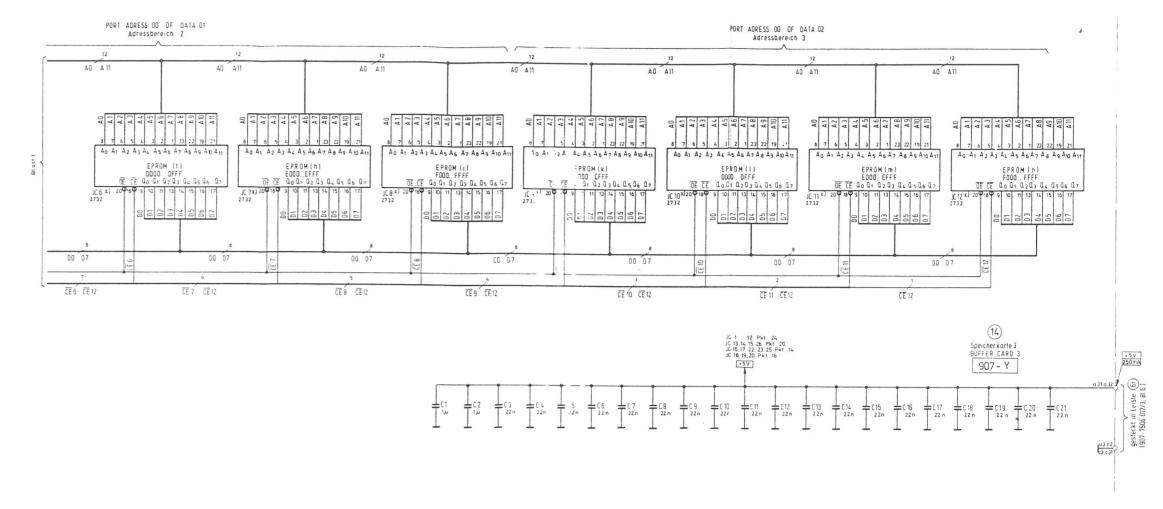
RAZ

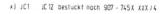
équipé équipé sulvant. Strap

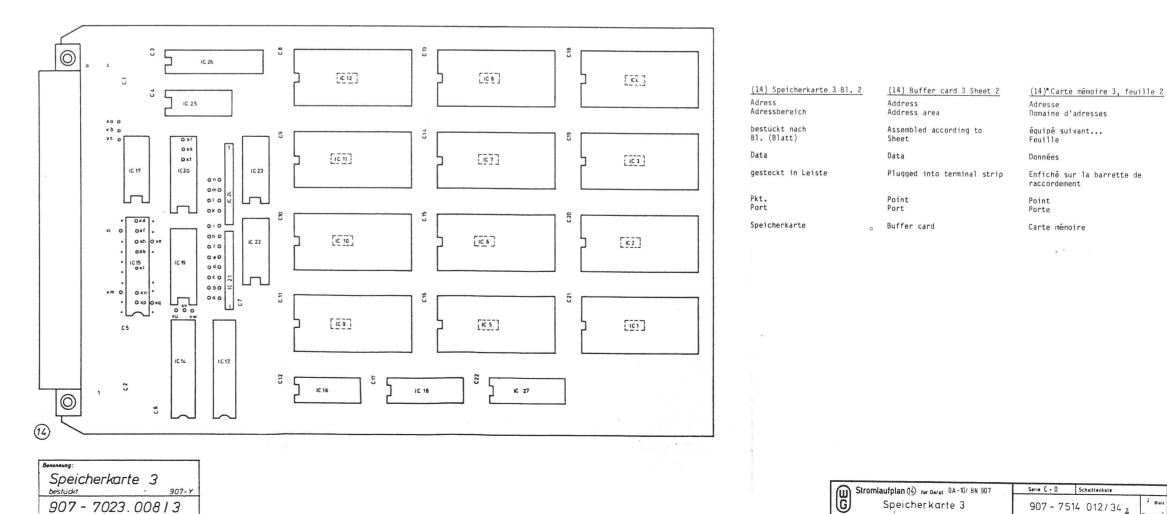
Données Démultiplexeur

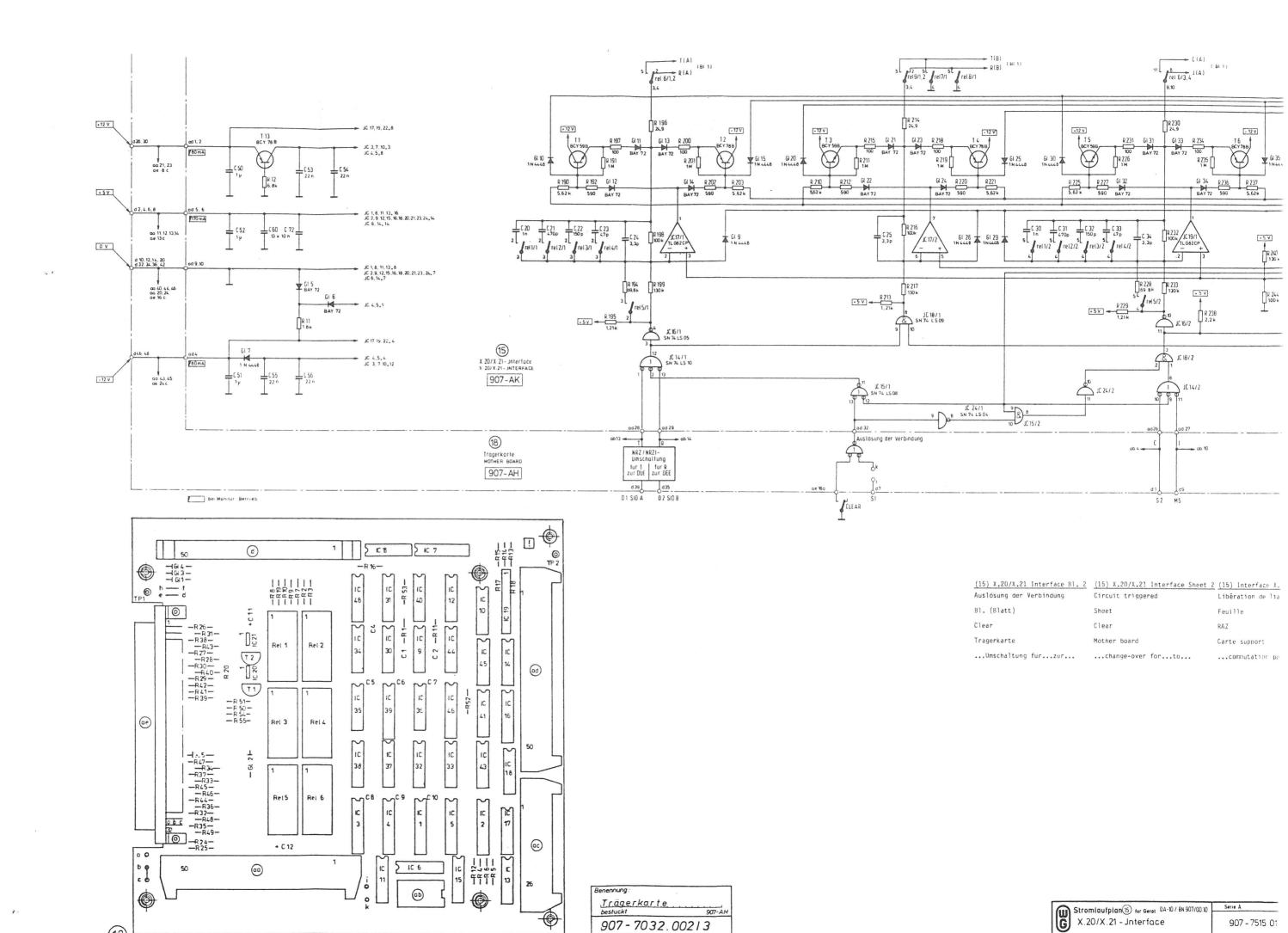
Enfiché sur la raccordement

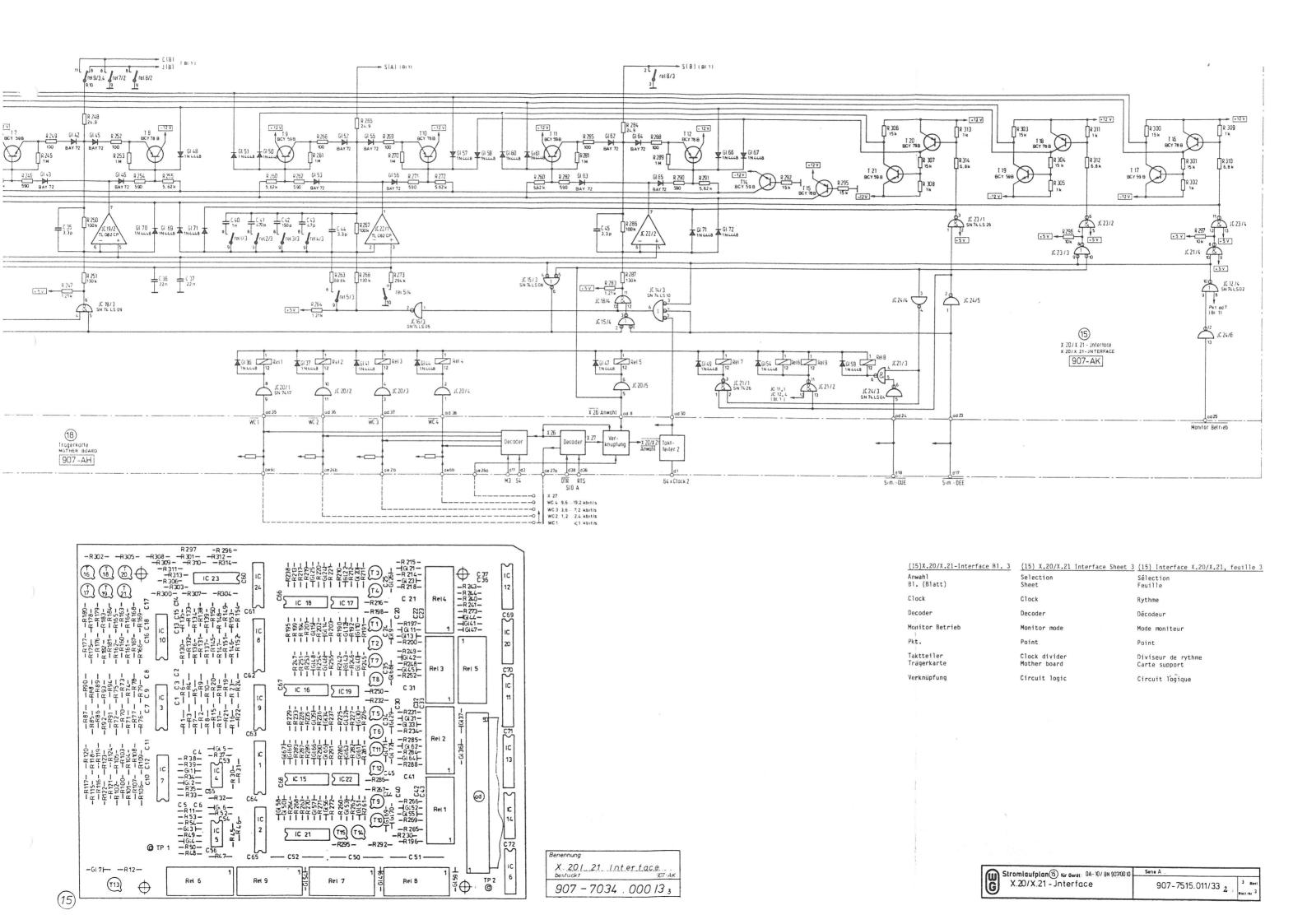
Carte mémoire

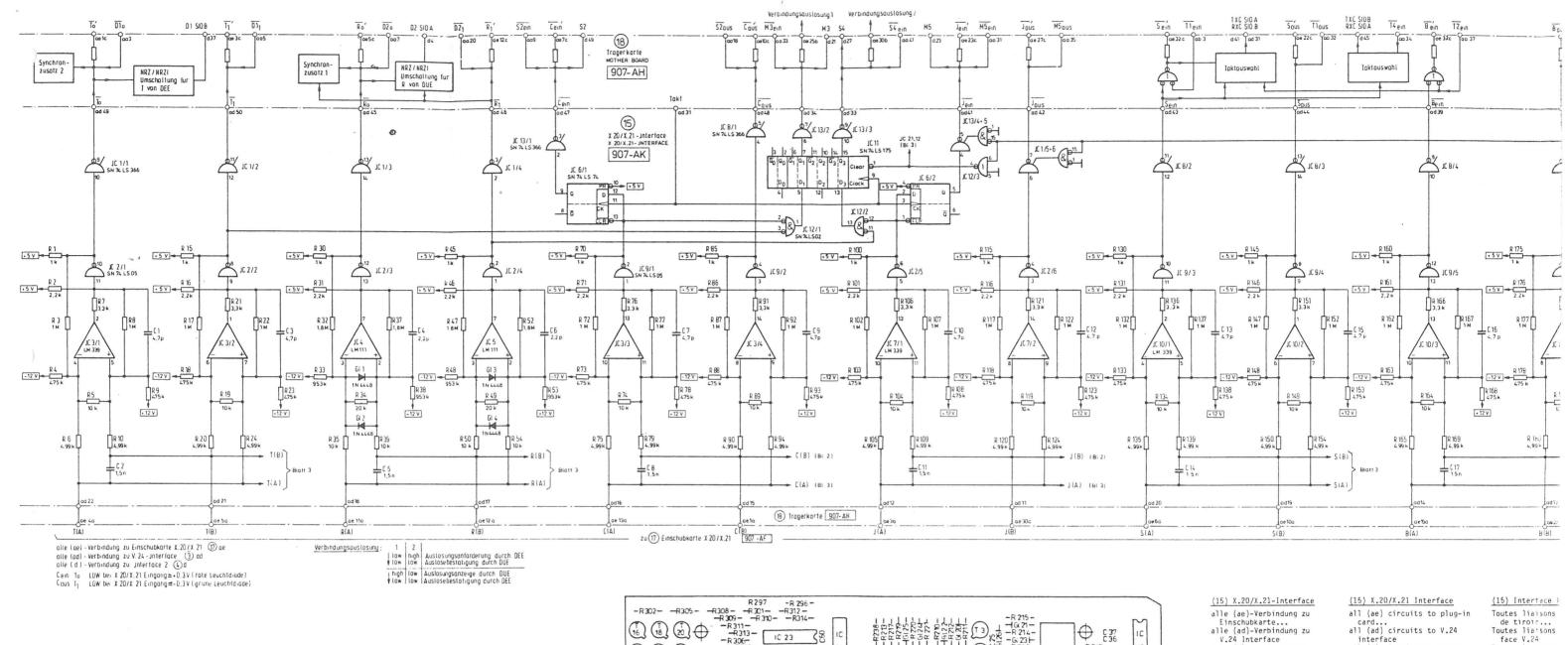












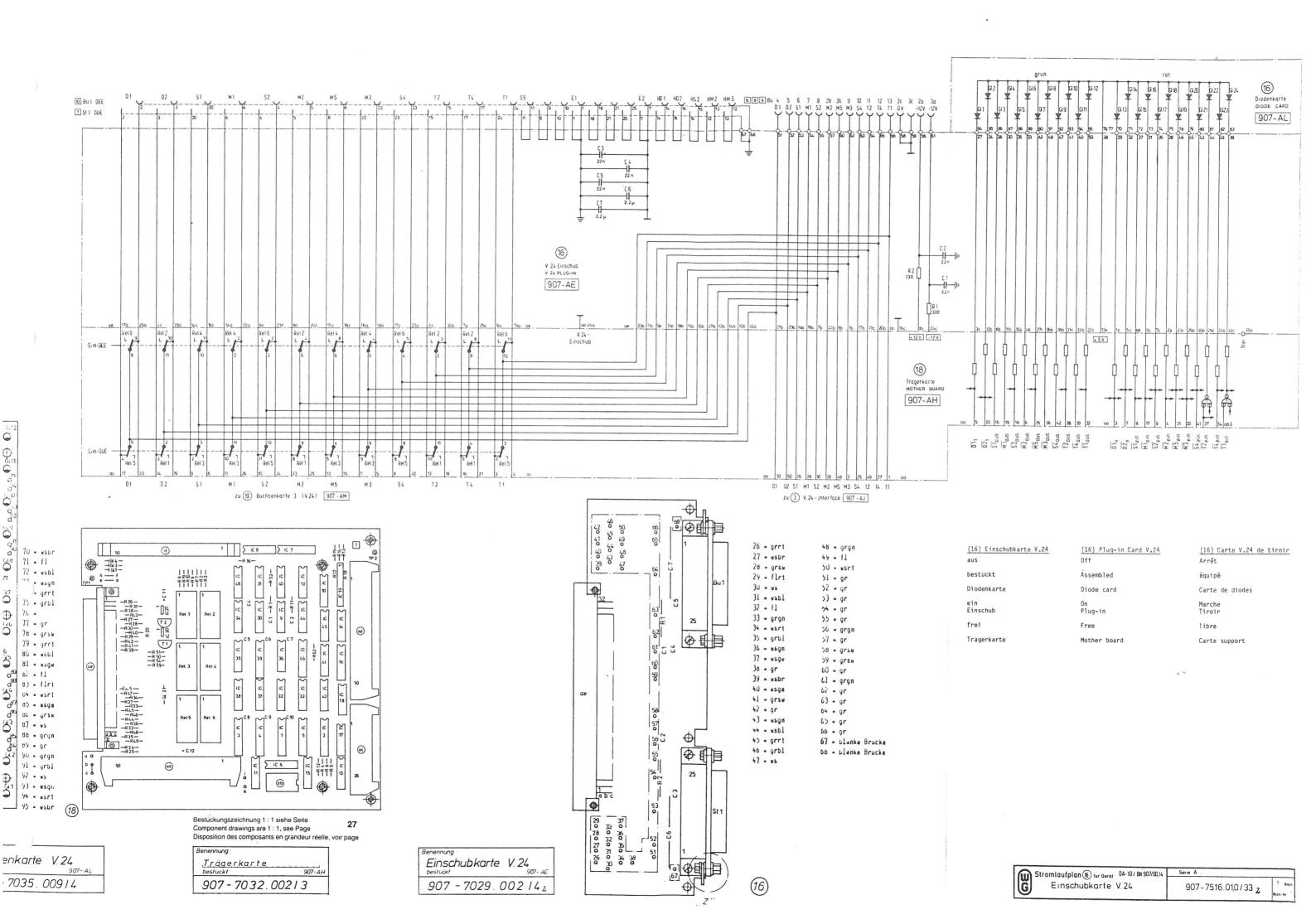
IC 23 \$ -R306--R303--R24--R240--R241--R273--R300--R307- -R304-C 21) IC 17 -R216--R198- R T -R200--R248--R248--R252-C70] | IC 19 | -R250--R232- B -R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37--R37-- R36--R39--G11--R34--G52--R35--R33-- R262 - R232 - R265 - CS5 —R 32— (od) C65 -GI 71- -R12-TP 2 (T13) ₹ Ф \oplus

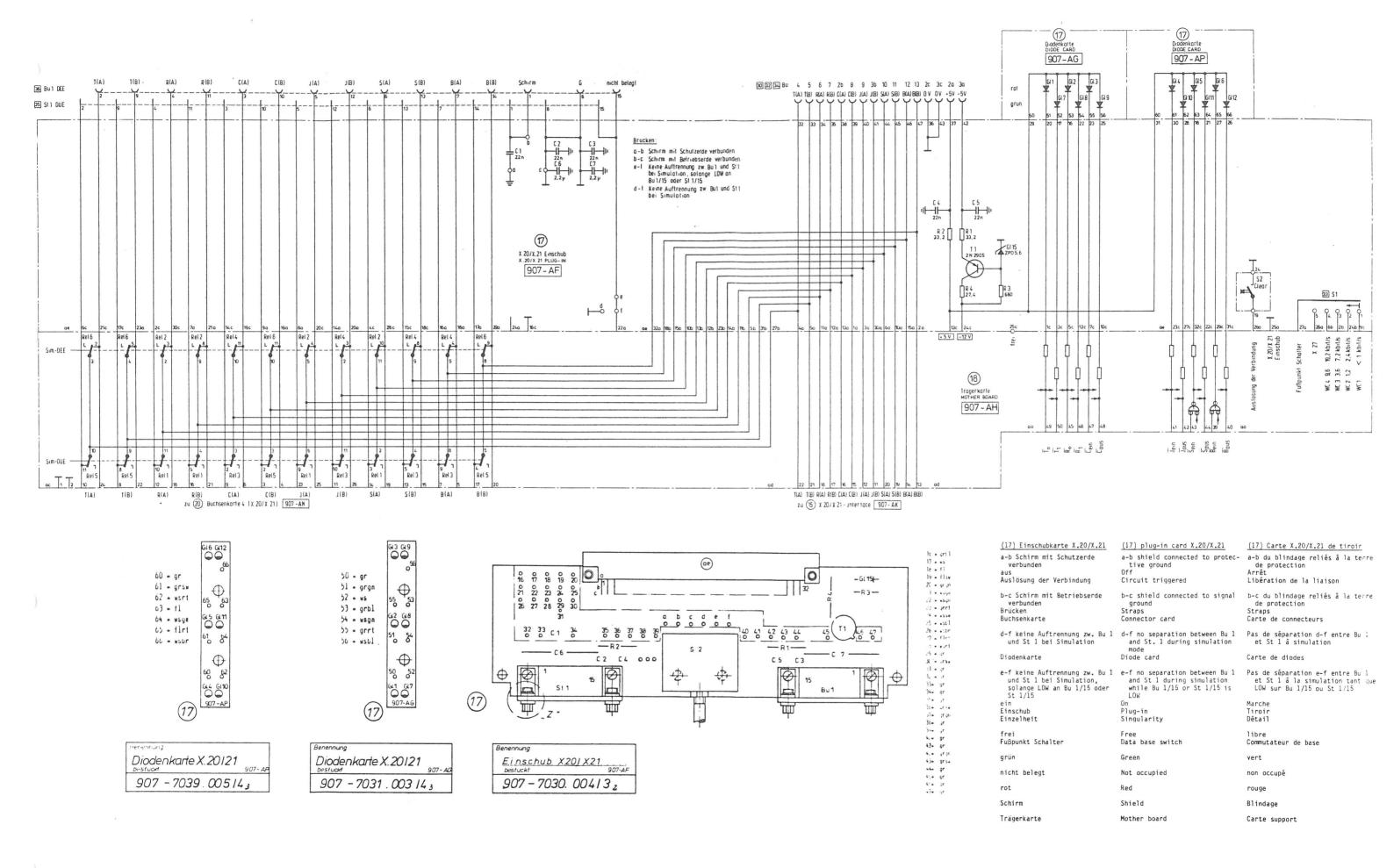
Einschubkarte... alle (ad)-Verbindung zu all (ad) circuits to V.24 V.24 Interface interface face V.24 all (d) circuits to inter-face 2... alle (d)-Verbindung zu Interface 2... Toutes liaisons 2... Sélection Anwahl Selection Arrêt Demande de décle Confirmation de aus Auslöseanforderung durch... Trigger request by... Trigger indication by... Auslöseanzeige durch... par... Confirmation de Auslösebetätigung durch... Trigger confirmation by... ...bei...Eingang... Blatt ...at...input... Clear Clock Rythme marche grune Leuchtdiode Green LED DEL verte High High Haut Low Bas Red LED rote Leuchtdiode DEL rouge Sync. attachment Auxiliaire de s Synchronzusatz Clock selection Taktauswahl Choix de rythme Mother card ...change-over for...from... ...Umschaltung für...von... ...commutation Verbindungsauslosung Circuit trigger Libération de 1 zu (17) Einschubkarte to (17) plug-in card vers (17) carte

8enemung

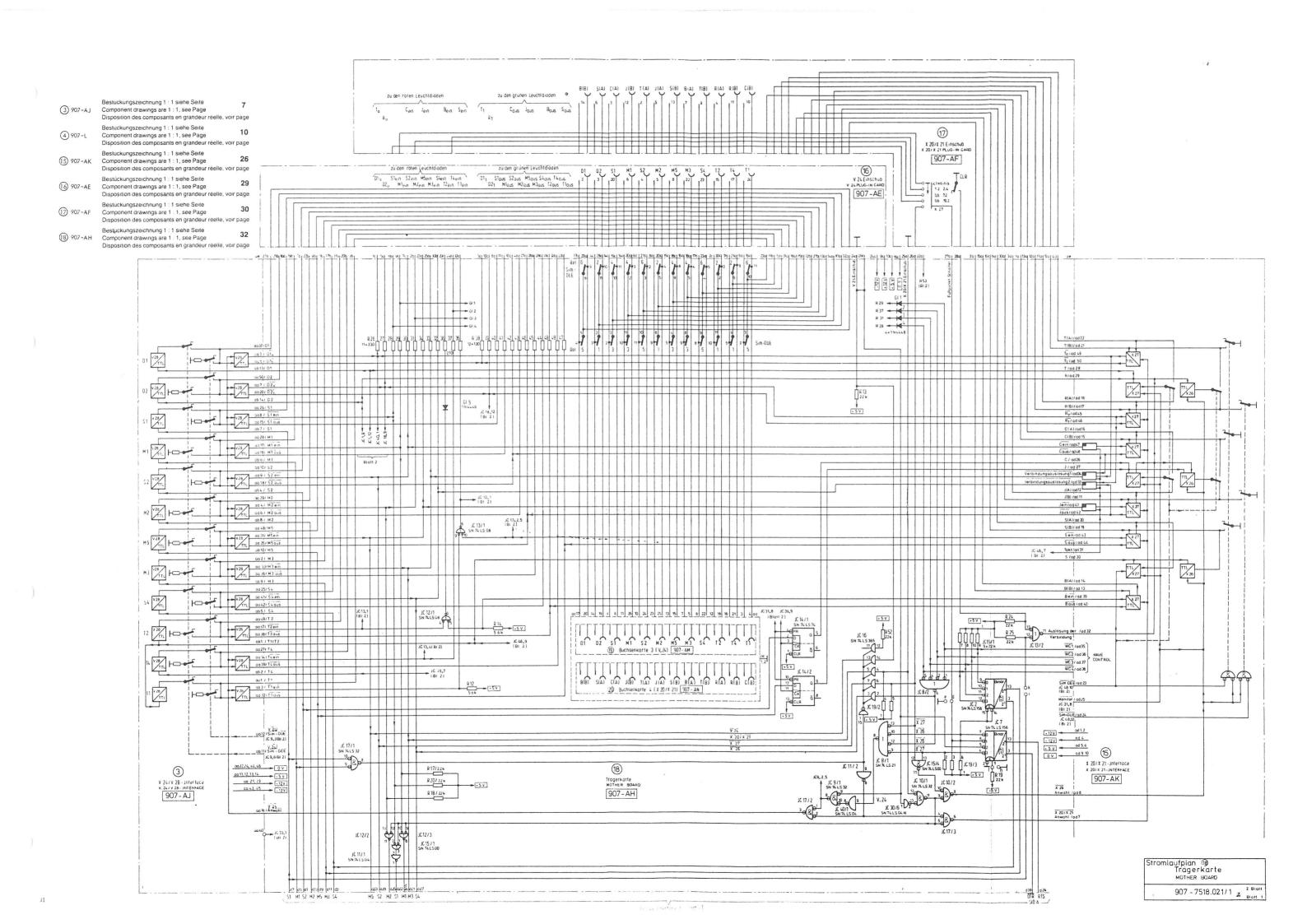
X 201. 21 Interface
bestuckt \$07.4

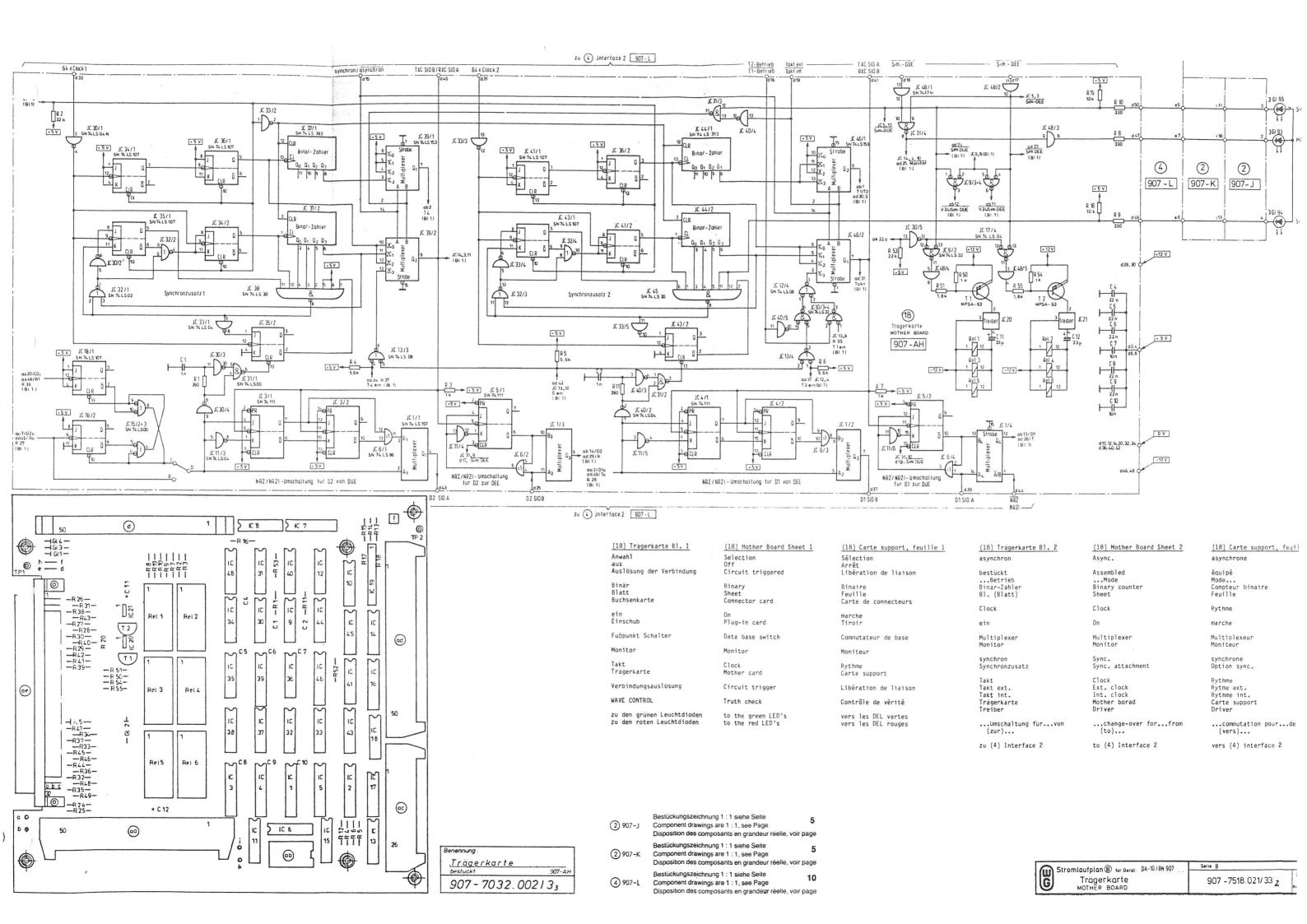
907 - 7034 . 000 13

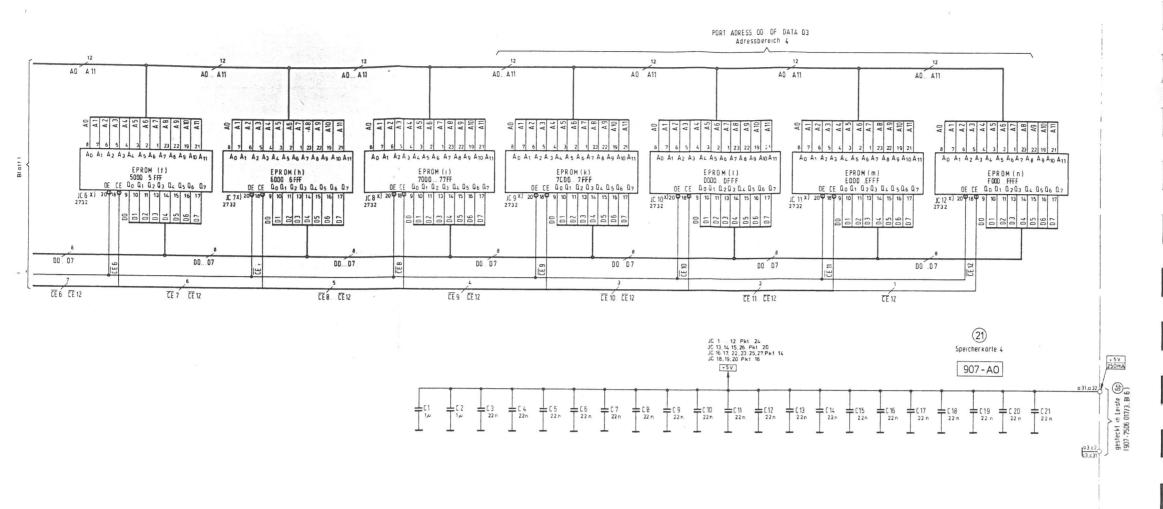




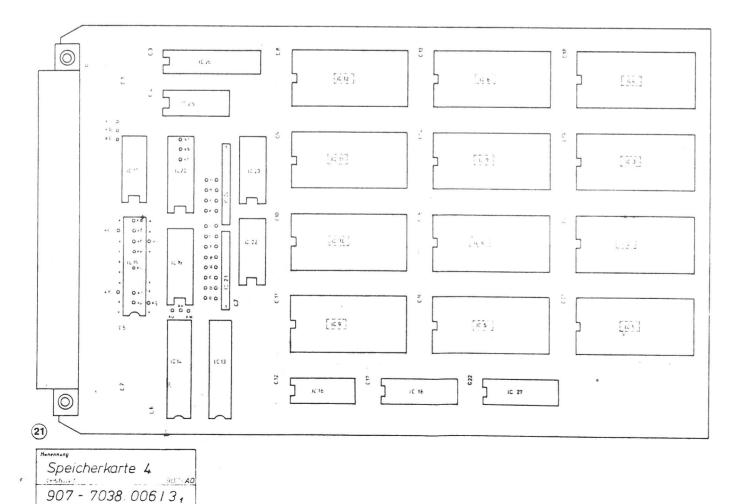
Strom(auto)(a) to 0ect 04-10/8N 907/00 15	Seria A					
Stromlaufplan® fur Oerat DA-10/BN 907/00.15 S Einschubkarte X.20/X.21	907 - 7517.019 / 33 _Z	f Bigit Bagti-No				





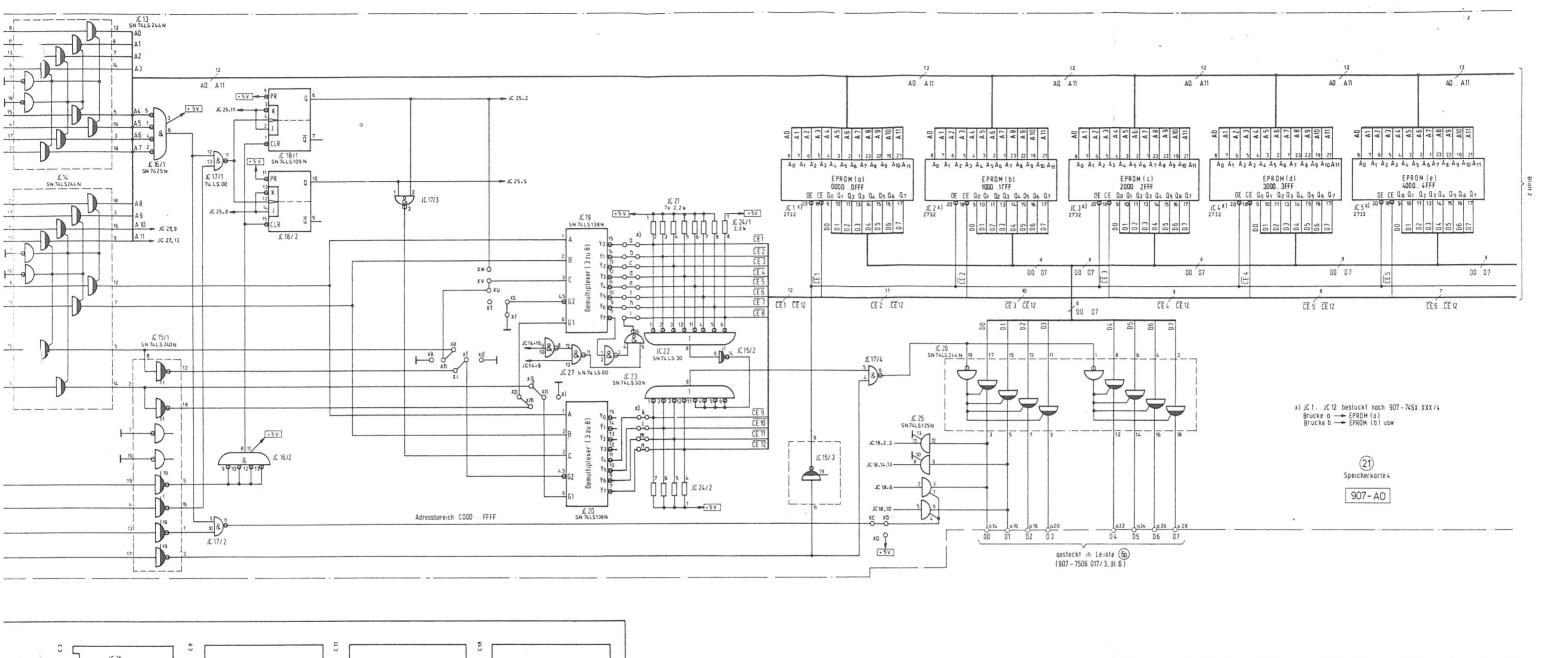


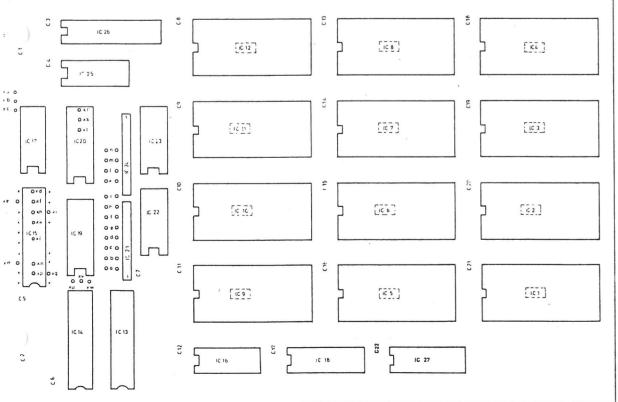
x) JC1 JC12 bestuckt nach 907 - 745 X XXX / 4



(21) Speicherkarte 4 Bl. 2	(21) Memory card 4 Sheet 2	(21) Carte mémoire 4, feuille
Adress Adressbereich	Address Address area	Adresse Domaine d'adresses
bestückt nach Bl. (Blatt)	Assembled according to Sheet	équipé suivant Feuille
Data	Data	Données
gesteckt in Leiste	Plugged into terminal strip	Enfiché sur la barrette de raccordement
Pkt. Port	Point Gate	Point Porte
Speicherkarte	Memory card	Carte mémoire

Stromlaufplan (2) Iur Gerat DA -10/ BN 907	Serie A	Schaltteiliste	
G Speicherkarte 4	907 - 7	521.018/34 2	Platt-Nr



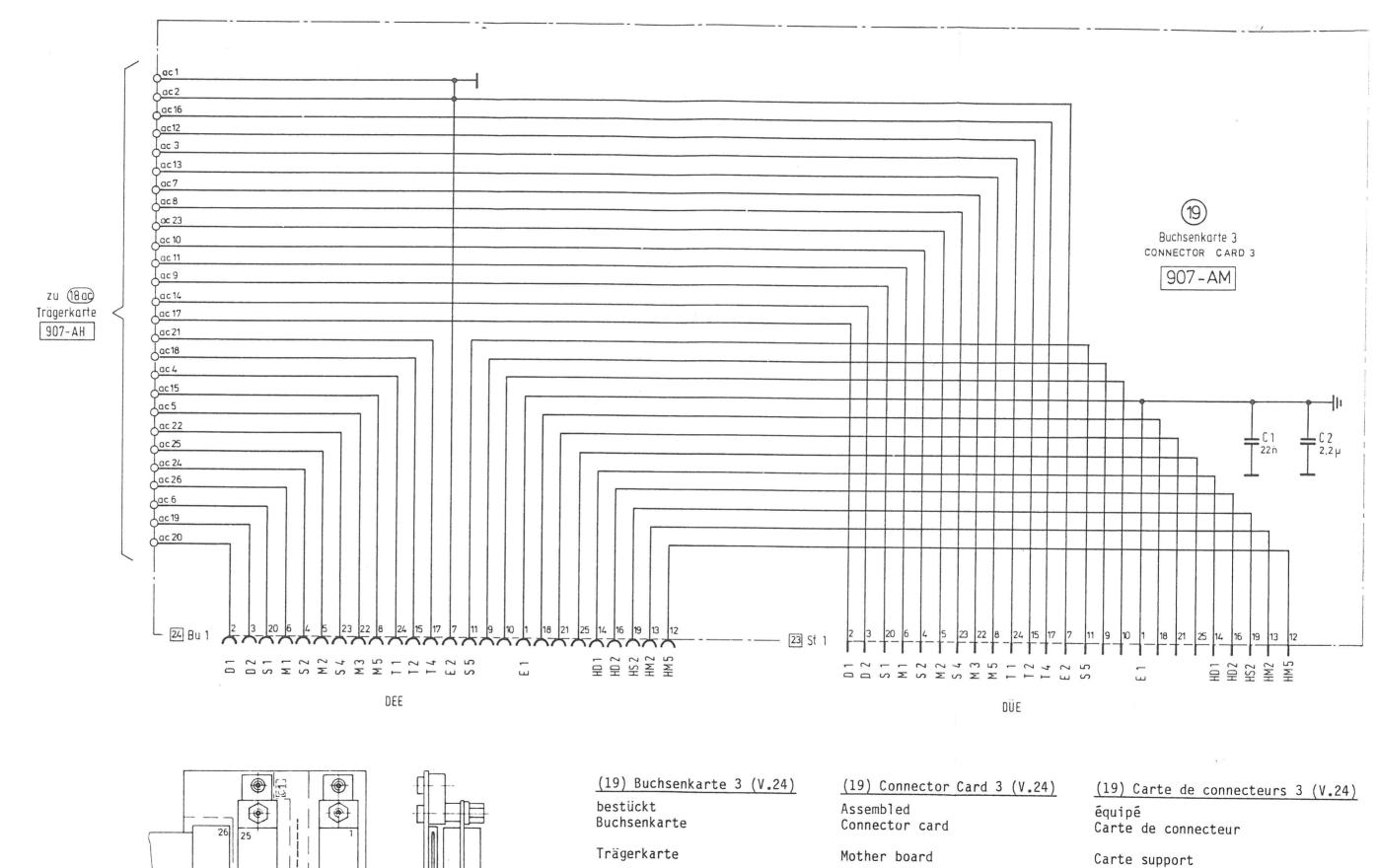


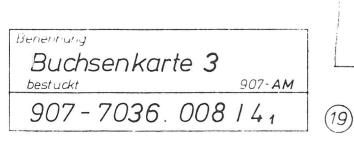
Speicherkarte 4
bestuckt 907-A

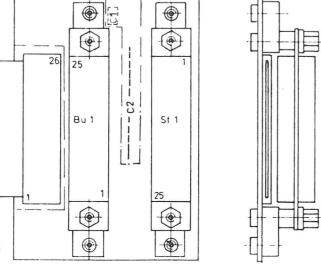
(21) Speicherkarte 4 Bl. 1 (21) Memory card 4 Sheet 1 (21) Carte mémoire 4, feuille 1 Adressbereich Address area Domaine d'adresses bestückt Bl. (Blatt) Brücke équipé Feuille Assembled Sheet Strap Demultiplexer Demultiplexer Démultiplexeur gesteckt in Leiste Plugged into terminal strip Enfiché sur la barrette de raccordement Reset Reset Speicherkarte Memory card Carte mémoire

Stromlaufplan (1) for Gerat DA-10/8N 907 Serie A...

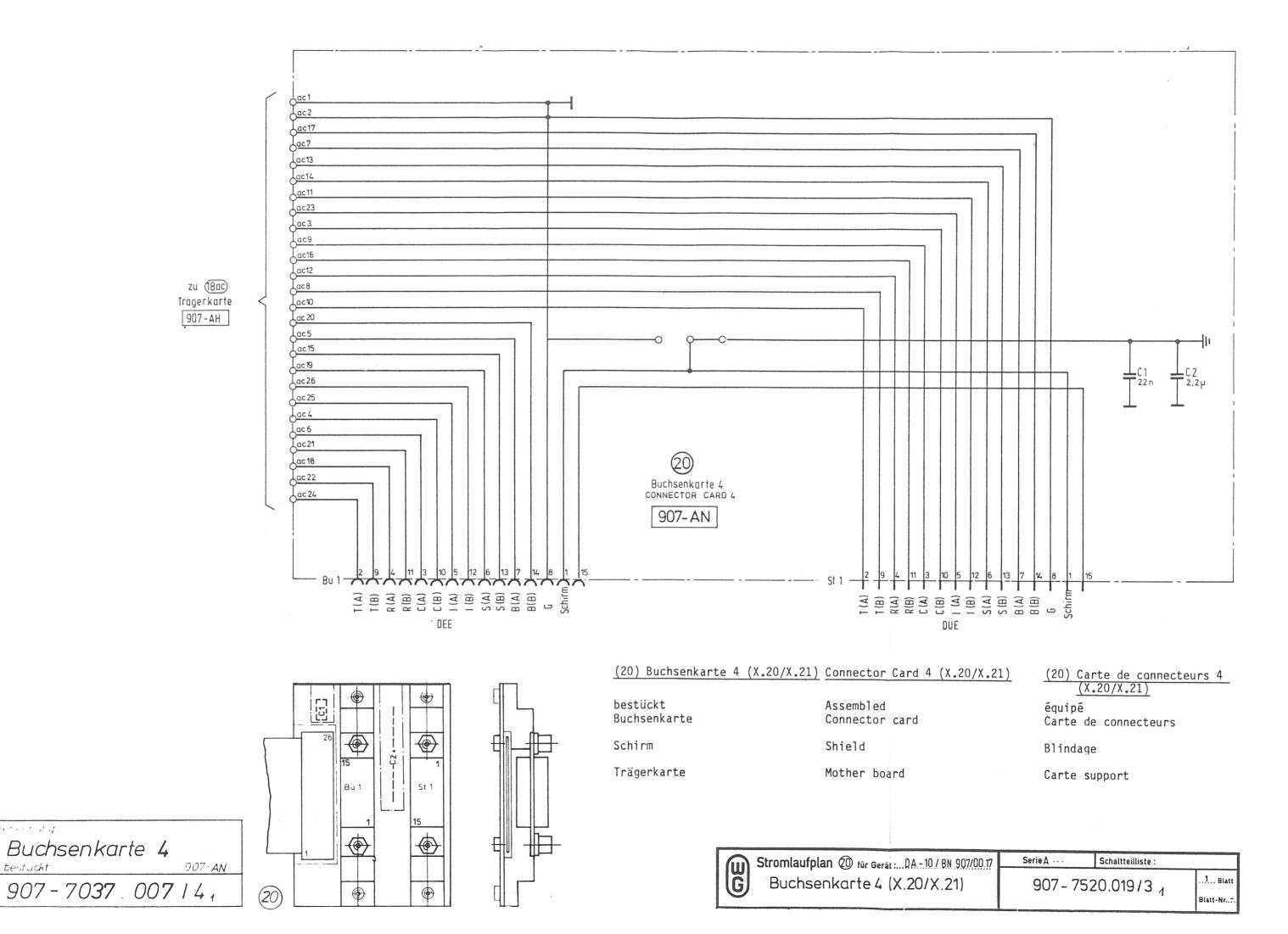
Speicherkarte 4 907 - 7521 .018/33 2 Beat



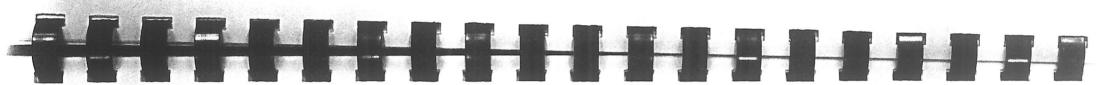




W	Stromlaufplan (19) für Gerät: DA - 10 / BN 907 / 00.16 Buchsenkarte 3 (V. 24)
G	Buchsenkarte 3 (V.24)



Server Ag



m+G -1 DV- *

S C H A L T T E I I I I S T E / P A F T - L I S T

BLATT 1 12.07.82

Schatteilliete/Parts List

SERIE D 0907-8402-000 DA-10 907/07 AUSF: 02

EILF-NR AKT NO	SACH-NR ITEM NO	DE NE NNUNG POLT AND LE SID	BEZEICHVUNG 1 MAKKING 1	MARKING 2	M G Q U	WERKNORM REF. DESIG	NOTE PENENKONG	SERIE AF
1 BU 2	0000-3004.045	MASSEBUCHSE	1 MEL LT	00-3004-045	1	119/02/07		
28U 1		D-STECKVERB - (M)	25 2 2,77X2,84 S1 AU		1	CANNUN		
260 3 580 5		D-STECKVERB.(M) D-STECKVERB.(M)	25 2 2,77x2,84 S1 AU 1 25 2 2,77x2,84 S1 AU			CANNON		
2 c 1	0001-0004-517	C-KERAMIK EDFT	1 100P 2% 63V	N 150 18 56	1	110/02/09		
20 2	0001-0004-821		! 22N 20/ ED 40V	IR10000 2 56		110/02/10		1 1
20 3	0001-0004-669	1	470P 10% 63V	IR 2000 2 56	1	110/02/10		1 1 1
20 4	0001-0004-821	I STATE OF THE STA	224 20/80 404	R10000 2 56	1	110/02/10		
20 5	0001-0010.501		1 1J 102 100V	MKT1822 56		110/03/07		! 1 1
2 C 6	0001-0004.656		1 390P 10% 63V	R 2000 2 56	1	113/02/10		1 1
20 7	0001-0004-656		390F 10% 63V	R 2000 2 56	1	110/02/10		
2 C 8	0001-0004-656		390P 10% 63V	IR 2000 2 56	1	110/02/10		1 1 1
20 9	0001-0004.656		1 390P 10% 63V	IR 2000 2 56	1	113/32/10		
20 10	0001-0004.656		390P 10% 63V	R 2000 2 56	1	110/02/10		1 1
2 c 11	0001-0004-656	C-KERAMIK EDPT	390P 10% 63V	k 2000 2 56	1	110/02/10		1 1
2 C 12	0001-0004.656	C-KERAMIK EDPT	. 390P 10% 63V	R 2000 2 56	1	110/02/10		
2C 13	0001-0004-656	C-KERAMIK EDPT	370P 10% 63V	IK 2000 2 56		113/02/10		1 1
20 14	0001-0004-656	C-KERAMIK EDPT	390P 10% 63V	IR 2000 2 56		113/32/13		1 1
2C 15	0001-0004-656	C-KERAMIK EDPT	390P 10% 63V	IR 2000 2 56	1	110/02/10		
2C 16	0001-0004-656	C-KERAMIK EDFT	390P 10% 63V	R 2000 2 56		110/02/10		1 1
2C 17	0001-0304.656	C-KERAMIK EDPT	1 390P 10% 63V	R 2000 2 56		110/02/10		
2C 18	0001-0004.656		390P 10% 63V	R 2000 2 56	1			!!!!
2C 19	0001-0004-656		390P 10% 63V	R 2000 2 56		110/02/10		1 1
2C 20	0001-0004-656		1 390P 10% 63V	R 2000 2 56		110/02/10		! !!
2C 21	0001-0004-656		390P 10% 63V	R 2000 2 56		110/02/10		!!!!
5C 55	0001-0004.656		390P 10% 63V	IR 2000 2 56		110/02/10		!!!!
2 C 23	0001-0004-655		390P 10% 63V	IR 2000 2 56	1			
2C 24	0001-0004.821		22N 20/80 40V	R10000 2 56	1			
	0001-0004.821		22M 20/80 40V	F 10000 S 56		110/02/10		1 1
2C 26	0001-0004-656		390P 10% 63V	R 2000 2 56		110/02/10		
2C 27	0001-0004-656		390P 10% 63V	R 2000 2 56	1	110/02/10		1 1
2C 28	0001-0004-656		390P 10% 63V	iR 2000 2 56	1	1		
2C 29	0001-0304-656		390P 10% 63V	IR 2000 2 56	1	110/02/10		
20 30	0001-0004-656		390P 10% 63V 100N 20% 100V	R 2000 2 56 MKT1822 56	1	110/03/07		
2 c 31	0001-0010-378		22N 20/80 40V	1R10000 2 56		110/02/10		
2 C 34 2 C 35	0001-0004-821 0001-0010-174		407 10% 100V	MKT 1813 56	1	110/03/06		
2GL 1	0001-0018.859	DIODE ST Z-	I IZPD 5,6 DO 35	1	1	171		
	0000-7536.878		LD 30 11 PD 77	1	1 0	114/03/03		(
21C 2	0000-7576.883	IE-MOS	 AY-5-3600 PRO DIP 40	i I Mos	1	GEN_INSTR.		
	0907-9311-006		102708L DIC 24	lev 907-9311.006 MOS				1 1
	0001-0065-695		SN74LS 004 DIP 14		1	1	1	1 1
210 5	0001-0067-169		ISN74LS DEN DIF 14	•	1	TEXAS		
	0001-006-856		SN74LS O3N DIP 14	Î	1	TEXAS		
210 7	0001-0071-100		SN74LS155N DIP 10	!	1			
	0001-0056.837		ISN74LS 74AN DIF 14			TEXAS	ì	1 1

Bei Bestellung Sach-Nr. angeben! When ordering, quote Item No.

SERIE D 0907-8402.000 DA-10 937/02

AUSF: 02

TEILE-N PART NO	R SACH-NR ITEM NO	BENENNUNG DESIGNATION	BEZEICHNUNG MARKING 1	1	HEZEICHNUNG MARKING 2	2	MG		BEMERKUNG NOTE	SERIE AF VERSION	
2 I C 1	1 0000-7570-614	10-111	MC 1485 L	DIC 14	1		1	MOTOROLA		· i · · · · · · · · · · · · · · · · · ·	+
210 1			MC 1488 L	DIC 14			1	MOTOROLA		1	1
2 IC 1	100 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	F 1 100 100 100 100 10 10000	SN75 1894			A1 C 1 9 0 A N A	1		1		
210 1	The contract of the contract o		SN75 189N			ALS189AN! ALS189AN!	1	TEXAS	Į.		1
210 1			SN75 189N			ALS 139AN!			1	1	
210 1			ISN74LS DON	DIP 14		ALS PPPISAN		TEXAS		! !	
210 1			SN74LS 27N	51.70			!	TEXAS		i 1	1
210 1				DIP 14			1	TEXAS		1 1	
210 1		1	SN74LS DON	DIP 14	i .		!	TEXAS		1 1	1
210 2				DIP 14	•		1	TEXAS		!!!!	
51C 5			SN74LS DON	DIP 14			1	TEXAS		1 1 1	1
	the transfer of the transfer of the		SN74LS DON	DIP 14	i .		1	TEXAS		1 1	1
			SN74LS 21N	DIP 14	t .		1	TEXAS		1	
5 IC 5	3 0000-7570.601	10-112	SN75 189N	DIP 14	AND DATEN	ALS189AN!	1	TEXAS			ı
2 L	1 0001-0042.757	L-FUNKENTSTOER	Z = 9 3 D BR	B82114-R-A4	61	D 1 A	1	117/01/01			
2 R	1 0001-0007.158	R-KOHLE	100K 5	X 0207	1	56	1	018/03/01			
2 R	4 0001-0006-858	R-KOHLE		X 0207		56	1	018/03/01			
	0001-0006-997			2 0207		56	1	018/03/01		1 1	
2 R	6 0001-0006-997		10.000	x 0207	! !	56	4	018/03/01		1 1	
	7 0001-0006.997			% 0207		56	1	018/03/01		i 1 1	
	0001-0006.955			2 0207	1	56	1	018/03/01		i 1 1	
2R				2 0207	i	56	1	018/03/01		1 1 1	1
2 R 1				2 0207	l	56	4	018/03/01		1 1 1	
2R 1				× 0207	ĺ	56	1	018/03/01		1 1 1	i
2R 1				2 0207	1	56	1	018/03/01		! ! !	
2R 18				% 0207		56	4	018/03/01		! ! !	
2R 19				2 0207		56	1	018/03/01		1 1	
2R 20				2 0207		56	1	H 1570 B 161 HART 1877 ST 177 W		!!!!	
2R 2				2 0207		56	- 1	018/03/01		!!!	
2R 2				2 0207		56	4	018/03/01		!!!	
2R 2				x 0207		56	4				
2R 2				2 0207		56	1	018/03/01		i	
2R 2	H [17] - [10] [10] [10] - [10] [10] [10] [10] [10] [10] [10] [10]			% D2D7			- '	018/03/01		i i l	
2R 2			5 K 6 5			56	1	018/03/01		1	
2R 29			The state of the s	× 0207		56	,	018/03/01		1	
2R 30						56	1	018/03/01		1 1	
			The second secon	30 m. m. i. i		56	1	018/03/01		1 1	(
	네 내			2 0207		56	1	018/03/01			-
				2 0207		56	.1	018/03/01			-
			5 K6 5			56	1	018/03/01			(
				X 02 07		56	1	018/03/01			
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2R 37			10K 5			56	1	018/03/01			-
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SCHALTTEILLISTE / FAPT-LIST

BLATT 3 12.07.82

Schalttellliste/Parts List

SERIF D 0907-8402_000 DA-10 707/02 AUSF: 02

	LE-NE T NO	SACH-NP ITEM NO	BENENNUNG DESIGNATION	BEZFICHNUNS 1 MARKING 1	REZEICHNUNG 2 MARKING 2	67 W2	#EKKNORM REF_DESIG	BEMERKUNU Note	SERIE AF VERSION	С
25		0000-7564-235	S-TASTE	1100 AU TAST	1547-603 N_RUF	1	RUF RJF			L
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				1100 AU TAST	1547-603 N.RUF	1	RUF		!	1
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2 \$				100 AU TAST	1547-603 N -RUF	1	RUF		1	1
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25				100 AU TAST	1547-603 N-RUF	1	RUF		1	L
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2 5	2 5			100 AU TAST	11547-603 N-RUF	1	RUF		1 !	L
2 5	26			100 AU TAST	11547-603 N-RUF	1	RUF		1	L
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25	28			100 AU TAST	11547-603 N.RUF	1	RUF		! !	L
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2.5	30			100 AU TAST	1547-603 N-RUF	1	RUF		1 1	L
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BLATT 4

12-07-82

SERIE D 0907-8402-000 DA-10 907/02

AUSF: 02

TEILE-NR SACH-NR BENEHNUNG HEZFICHNUNG 1 PART NO E EZEICHNUNG 2 ITEM NO DESIGNATION WERKNORM BEMERKUNG MARKING 1 SERIE AF C MARKING 2 QU REF DESIG VERSION 4 BU 0000-3717-002 TF-BUCHSE M EB 00-3717.002/4 119/01/09 0001-0041.059 ELKO-TA SINT FEST 47 U 20% 0001-0010-093 C-KF MKT 0001-0010-093 C-KF MKT 4 C 6 V 3 IETR-3 110/05/61 1 U 10% 100 V 40 IMKT1813 56 1 110/03/06 1 U 10% 100 V IMK T1813 40 10 0001-0004-821 C-KERAMIK 56 EDFT 110/03/06 22N 20/ 80 40 P10000 2 11 0001-0004 - 821 C-KERAMIK 56 110/02/10 EDPT 551 4 (40 V R 10000 2 12 0001-0004-821 C-KERAMIK 1 110/02/10 56 EDPT 22 N 20/ 80 0001-0004-821 C-KERAMIK R10000 2 40 40V 56 E D F T 1 110/02/10 25 N 201 80 14 15 40 V 4 C 1R10000 2 0001-0004-821 C-KERAMIK 56 EDFT 1 110/02/10 03 105 4 C 22 N 40 V R 10000 2 0001-0004.821 C-KERAMIK 110/02/10 0001-0004-821 C-KEFAMIK 0001-0004-821 C-KEFAMIK 0001-0004-821 C-KEFAMIK FDPT 20/80 4 C 4 0 V R10000 56 113/32/10 EDPT 22N 20/ 80 R10000 2 40 V 4 C 17 56 1 110/02/10 55 N 20/ 80 40 V 4 C R10000 2 18 56 EDPT 110/02/10 22 N 20/80 4 C 4 O V K13003 19 0001-0004-821 C-KERAMIK 110/02/13 E DF T 224 20/ 80 4 C 40 V 1R10000 2 0001-0004-821 C-KERAMIK 56 110/02/10 FOPT 2 2 N 501 60 4 C 40V 0001-0004-821 C-KERAMIK IR10000 2 56 110/02/10 EDPT 0001-0004-821 C-KERAMIK 0001-0004-821 C-KERAMIK 25 N 20/ 80 40V 22 1 R 1 0 0 0 0 2 56 EDPT 110/02/10 22N 20/ 80 4 C 40 V R10000 2 23 55 110/02/10 EDPT SSN 20/ 80 L 4 C 40V R 10000 2 0001-0040.830 ELKO-TA SINT FEST 24 56 110/02/10 6UP 20% 0001-0004-821 C-KERAMIK EDPT 0001-0004-821 C-KERAMIK EDFT 6 V 3 IETR-1 25 1 113/35/61 56 22N 20/ 80 4 C 30 40V IR10000 2 110/02/10 56 22N 20/ 80 40 V 4 C 3001-0004-313 C-KERAMIK IR 10000 2 1 110/02/10 31 56 EDFT 27P 4 C 2% 63 V NP O 0001-0304.737 C-KERAMIK 32 13 56 113/32/09 EDET 2 N 2 F 5000 5 10% 63V 0001-0004-821 C-KERAMIK 5 5 110/02/10 EUPT 55 N 20/ 80 R10000 2 4 D V 1 110/02/10 0001-0018-493 DIODE SI 0001-0018-493 DIODE SI 4GL 1 N 444B 4 GL DO ITT C 1 N 4448 0001-0018-037 DIODE SI 0001-0018-493 DIODE SI 46L DO 35 1 ITT BAY 72 DO 35 4GL 1 FSC 1 N 4448 CC DO 35 4GL 6 0001-0018.493 DIODE SI 1 111 DO 35 1 ITT 0001-0071-922 IC-TTL 0001-0071-472 IC-TTL 0001-0066-241 IC-TTL 410 SN74LS241N DIP 20 410 TEXAS SN74LS D1N DIP 4 I C TEXAS SN74LS 76AN DIP 16 41C 0001-0071.472 IC-TTL TEXAS SN74LS D1N 0001-0066.241 IC-TTL 0001-0071.346 IC-TTL C- .. 4 I C DIP 14 TEXAS SN74LS 76AN 4 IC DIP 16 TEXAS L SN74LS373N DIP 20 0000-7566-958 IC-NMOS 4IC D8253-5 TEXAS DIC 24 41C 0001-0014-992 IC-TTL MOS .1 INTEL DON DIP 14 4 I C 0000-7568_008 IC-MOS TEXAS Z-80A SI0/2CS DIC 401 (MK 3884 MOSTEK) DIP 141 B-.. 0000-7543.997 IC-TTL 4 I C 10 MOS ZILOG 15N74LS125AN 0000-7555.723 IC-TTL 4 IC TEXAS SN74L5245N DIP 20 4IC 12 0001-0071-922 IC-TTL SN74LS241N TEXAS DIP 20 410 13 0001-0071.922 IC-TTL TEXAS S N 7 4 L S 2 4 1 N 0001-0071.922 IC-TTL L 410 DIP 20 14 TEXAS SN74LS241N 0000-7566-961 IC-NFOS 4 I C 15 DIP 20 D8255A-5 TEXAS 0001-0066.238 IC-TTL 0001-0070-512 IC-TTL 16 17 DIC 40 4IC MOS 1 INTEL SN74LS ZON 410 DIP 14 1 TEXAS SN74LS138N DIP 161 410 18 0001-0065.695 IC-TTL SN74LS DON DIP 14 19 0001-0371.922 IC-TTL TEXAS 1 SN74L S741N DIP 201 1 TEXAS Bei Bestellung Sach-Nr. angeben!

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SCHALTTEILLISTE / FART-LIST

BLATT 5 12.07.32

Schaltteilliste/Parts List

SERIE D 0907-8402-000 DA-10 907/02

AHSE . CZ

ILE	- N R N O	SACH-NR ITEM NO	DESIGNATION	HEZEICHN MARKING			MARKING 2	5	1	WERKHORM REF.DESIG	NOTE	SERIE A
IC	20	0000-7536-629 0000-7513-325		MCT 210			NACHFOLGER:	CNY57A HP5082-4371	1			
os	1		QUARZOSYILLATOR	1	400KHZ		1 1BV 0907-930		1			c
R	1	0001-0006.955		i i								
R	ż	0001-0006.455		1 2 K 2	5 % 5 %	0207		56	1 !	018/03/01		!!
R	3	0001-0006.955		1 5 8 5	5%	0207 0207	i	56	1	018/03/01		
9	4	0001-0006-955		5 K S	5%	0207	!	56	1 :	018/03/01	10	1 1
R	5	0001-0006-858		1 330R	5 %	0207	!	56	1	018/03/01		
2	6	0001-0006-913			- 100			56	1	018/03/01		i i
R	7	0001-0005-832		1 1 K	5 % 5 %	0207	i	56	1	018/03/01		i i
2	8	0001-0003-832		100k		0207	1	56	1	018/03/01		1
2	9	0001-0007.138			5 %	0207	1	56	1	018/03/01		1
	12	0001-0006.913		6 K 8	5 %	0207	!	56	1	018/03/01		1 !
	13	0001-0006-793		100P	5% 5%	0207 0 207		5.5	1	018/03/01		1 !
	14	0001-0007-035		100k	5%	0207	1	56	1	318/03/01		!
	15	0001-0006-955					i	56	1	D18/03/01	,	1
?	16	0001-0006-939	R-KOHLE	2 K2	5 % 5 %	0207 0207	1	56 56	1	018/03/01		i
;	1	0000-7574-050	S-DREH SCHLUFSSEL	20 40	4 PAST 18	SCHL	31-411_00		1	LUMITAS		
BU	1	0000-1537.074	WINKELBU. 75 OHM KPL	1			1		1			
U	2	0000-1671-344		!			!		1			i i
U	4	0000-2703-004	HF-BUCHSE, ISOLIERT	UNI 9L	75	H A	LT FL 26,5		1	119/09/04		1
U	5	0001-0068-016	#INK ELK UPPL UNG	8	M KA 5,0	LT 4	MIKU 8		1	HIRSCHAANN		C
	2	0001-0004-517	C-KERAMIK EDPT	100P	2%	63 V	N 150 1B	56	1	110/02/09		c
	4	0000-7500-901		AB	GLEICHWE	RT	i	56	1	110/02/09		i
	5	0000-7500.901	C-KERAMIK EDPT	AB	GLEICHWE	RT	İ	56	1	113/32/09		1 1
	7	0001-0004-465	C-KERAMIK EDPT	58P	2%	63V	N 750 1B	56	1	110/02/09		!!!
	11	0001-0010.093	C-KF MKT	1 1 U	10%	100V	MKT 1813	56	1	110/03/06		! !
	13	0001-0010-093		1 0	10%	100V	MKT1813	56	1	110/03/06		;
	14	0001-0004-821		224	20/ 80	40 V	R10000 2	56	1	113/02/10		i i
	15	0001-0004-821		1 554	20/ 80	40V	1 R 10000 2	56	1	110/02/10		i i
	16	0001-0004.821		1 224	20/ 80	40V	R10000 2	56	1	110/02/10		i i
	17	0001-0304-821	C-KERAMIK EDPT	1 SSN	20/ 80	4 O V	R10000 2	56	1	110/02/10		i I
	18		C-KERAMIK EDPT	22N	23/ 80	40 V	R 10000 2	56	.1	110/02/10		1
	19	0001-0004-821		1 22N	201 BO	40 V	R10000 2	56	1	110/02/10		1
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	21	0001-0004-821		1 55M	20/ 80	40 V	R10000 2	56	1	110/02/10		! !
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	26	0001-0004-821		22N	501 80		R10000 2	5 6	1	110/02/10		į !
	27	0001-0004-821		22N	201 80	40 V	IR10000 2	56	1	110/02/10		1
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SERIE D 0907-8402.000 DA-10 907/02 AUSF: 02

ILE-NR	SACH-NR	BENENNUNG	DE ZE LOUNDES &		T		T	1	1	
RT NO	ITEM NO	DESIGNATION	BEZEICHNUNG 1 MARKING 1		MARKING 2	16 2	MG	The second secon	BEMERKUNG NOTE	SERIE AL
IC 11	0000-7570-614	10-171	MC 1488 L	D.C. 1.	1		╁.			1
IC 12			MC 1488 L	DIC 14			1	. O. OROLA		î î
IC 13			SN75 1894	DIC 14			1	MOTOROLA		1
IC 14			,	DIP 14	I AND . DATE	ALS189AN	! 1	1 - 11 - 11		i 1
IC 15			SN75 189N			1 ALS 189AN		1		1
IC 16			SN75 189N			ALS 139AN	1	TEXAS		1
IC 17			ISN74LS DON	DIP 14			1	TEXAS		i
IC 18			SN74LS 27N	DIP 14	1		1	TEXAS		1
IC 19			SN74LS DON	DIP 14			1	YEXAS		
10 20			SN74LS DON	DIP 14			1	TEXAS		1 1
IC 21			SN74LS DON	DIP 14			1	TEXAS		1 1
		11-111	SN74LS DON	DIP 14	1		1	TEXAS		1
IC 22		IC-TIL	SN74LS 21N	DIP 14			1	TEXAS		1
10 23	0000-7570.601	10-116	SN75 189N	DIP 14	AND DATEN	ALS189AN	1	TEXAS		!
L 1	0001-0042.757	L-FUNKENTSTOER	Z=930 BR B821	114-R-A4	!	60 1 A	1	117/01/01		<u> </u>
R 1	0001-0007.158	R-KOHLE	100K 5X	0207	İ	56	1	018/03/01		! !
4	0001-0006-858	R-KOHLE	330R 5%	0207	1	56	1	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		!
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9	0001-0006.997		4K7 5%	0207	1	56	1	018/03/01		i
1.5	0001-0006-913		1 K 5%	0207		56	1	018/03/01		i
16			1 K 5%		i	5.6	1	018/03/01		iii
17	0001-0006.913		1K 5%	0207	Ì	56	1	018/03/01		i
18	0001-0006-913		1 K 5 %	0207	1	56	1	018/03/01		1 1
19	0001-0006-913			0207	1	56	1	018/03/01		1
20	0001-0006-913			0207	!	56	1	018/03/01		1
	0001-0006-913		1 K 5%	0207	i	56	1	018/03/01		1 1
21 22	0001-0006.913		1 K 5%	0207	1	56	1	018/03/01		1
23	0001-0006-913		1K 5%	0 20 7]	56	1	018/03/01		1 1
26	0001-0007-006		1K 5%	0207		5 6	1	018/03/01		!!!
27	0001-0007-006		5K6 5%	0207		5 6	1	018/03/01		!!!
28			5K6 5%	0207		56	1	018/03/01		! ! !
29	0001-0007.006		5K6 5X	0207	İ	56	1	018/03/01		: ! !
	0001-0007-035		1 10K 5%	0207		56	1	018/03/01		1 1 1
30	0001-0006.913		1K 5%	0207		56	1	018/03/01		1 1
31	0001-0007-035		10K 5%	0207		56	1	018/03/01		
32	0001-0007-006		5K6 5%	0207		56	.1	018/03/01		i i l
33	0001-0007-006		5K6 5%	0207		56	1	018/03/01		i il
34	0001-0006-913		1 K 5%	02 07		56	1	018/03/01		
35	0001-0006.939		i 1×5 5%	0207		56		018/03/01		
36	0001-0006.858		330R 5%	0207		56		018/03/01		!!!
37	0001-0007-035	R-KOHLE	10K 5%	0207		56		018/03/01	!	: 1
38	0001-0006.858	R-KOHLE	330R 5%	0207 i		56		018/03/01	i	1
2	0000-7564.235	S-TASTE	100 AU TAST	į	1547-603	N_RUF	1	RUF	į	
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6	0000-7564-235		100 AU TAST	1		10401	11	nur l	1 10 1	35053660

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W+G -LDV-

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BLATT 3 12.07.82

Schaltteilliste/Parts List

SERIE D 0907-8402-000 DA-10 207/02 AUSF: 02

TEIL	F-NR	SACH-NP	BENENNUNG	BEZEICHNUNG 1	HIZEICHNUNG 2	MG	MEKKNORM	BEMERKUNG	55015	
PART		ITEM NO	DESIGNATION	MARKING 1	MARKING 2				SERIE	
1	110	112	DE 310 WAT 110 W	1	I MARKING C	197	REF DESIG	NOTE	VERSI) N
2.0	-	2000 2544 375				-			· · · · · · · · · · · · · · · · · · ·	\rightarrow
28	7	0000-7564-235		1100 AU TAST	1547-603 N.RUF	1	RUF	Ī	i i	L
2 \$	8	0000-7564.235		100 AU TAST	1547-603 N.RUF	1	RJF	1	. 1	L
2 S	9	0000-7564.235		100 AU TAST	1547-603 N_RUF	1	RUF	1	1	
2.5	10	0000-7564.235	S-TASTE	100 AU TAST	11547-603 N_RUF	1	RUF	1	1	
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410	10	0000-7543.997	IC-TTL	SN74LS12		DIP 14	THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S			TEXAS		,	A
4 1 0	11	0000-7555.723	IC-TTL I	SN74L524		DIP 20			- 1	TEXAS	i	i	1-1
410	12	0001-0071-922		SN74LS24		DIP 20		1		TEXAS	!	1	L
410	13	0001-0071.922		SN74LS24	1 N	DIP 20			1	TEXAS	1	!	1-1
410	14	0001-0071-922		SN74LS24	1 N	DIP 20!		1		TEXAS	!	1	L
4 I C	15	0000-7566-961		08255A-5		DIC 40				INTEL	!	i	1.1
AIC		0001-0066.238		SN74LS 20		DIP 141				TEXAS		i	11
41C 41C	17	0001-0070-512		SN74LS13		DIP 16!		1		TLXAS	!	1	1.
410	19	0001-0065.695		SN74LS 00		DIP 14		1		TEXAS	1	į.	11
•10	14	0001-0071.922	10-110 ;	SN74L SZ41	N	DIP 201				TEXAS	i		
Bei Bes	tellung S	Sach-Nr. angeben!									'	,	1-1

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H+C -FDV-

SCHALITEILLISTE / FART-LIST

BLATT 5 12.07.32

Schalttelliste/Parts List

SERIE D 0907-8402-000 DA-1C 907/C2 AUSF: C2

TEIL	F-NP	SACH-NR	BENENNUNG	FEZEICHNUNG 1		BEZEICHNUNG)	MS	HERKNORM	HEMERKUNG	SERIE	AF	
PART		ITEM NO	DESIGNATION	MARKING 1		MARKING 2	C		REF.DESIG	NOTE	VERSI		-
						<u> </u>		-			-		\dashv
410		0000-7536.629		MCT 210		NACHFOLGER:		1	GEN_INSTR.		i i		A
410	21	0000-7513.325	OPTO-# OFPLER	6 N 139	DIP 8	BICHG. ALT:	HP5082-4371	1	HPA		1		-
4 05	1	0007-0301 003	QUARZOSYILLATOR	3-685,400KHZ		I IBV 0907-9301	1 00%	1			C		A
1 403		0707-7301-003	WORK ZOSTILLATOR	J - 003, 400KHZ		180 0707-730	1 =003	1 '					^
4R	1	0001-0006.955	R-KOHLE	1 2K2 5%	0207	İ	56	1	018/03/01		1 1		c
4 R	5	0001-0006.955	R-KOHLE	2 K 2 5%	0207	1	56	1	018/03/01		1	- 1	C
4 R	3	0001-0006-955		5 k S 5%	0207	i	56	1	018/03/01	0	1		C
4 P.	4	0001-0006-955		2K2 5%	0207	1	56	1	018/03/01		!!!	- 1	C
4 R	5	0001-0006-858		330R 5%	C207	!	56	1	018/03/01		1 1	- 1	C
4R	6	0001-0006-913		1 1× 5%	0207	1	5 6	1	018/03/01		i i		C
4 R	7	0001-0005-832	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	220R 5%	0207	i	56	1	018/03/01		1		C
4R	8	0001-0007-158		100K 5%	0207	i	56	1	018/03/01		1	- 1	C
4R	9	0001-0007-019		6K8 5%	0207	1	5 6	1	018/03/01		1 !	- 1	C
4 R	12 13	0001-0006-913		1 1K 5%	0207	1	5.6	1 1	018/03/01		!!!		C
4 R		0001-0006-793		1 100P 5%	0207	1	56	1	318/03/01		! !	- 1	
4 R	14	0001-0007-035		10k 5% 2K2 5%	0207 0207	i	56	1	D18/03/01 D18/03/01		1 1		C
4 R	16	0001-0006-939		1 2K2 5%	0207	!	56 . 56	1	018/03/01		1 i	- 1	c
1 7"	10	0001-0006.737	K-KONLE	100	0207		76	1 '	015703701		1 1		-
45	1	0000-7574-050	S-DREH SCHLUFSSEL	20 40 4 FAST 18	SCHL	31-411-00		1	LUMITAS		1		L
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5 BU	1		WINKELBU. 75 OHM KPL	l		1		1		1	1 1	- 1	-
SBU	2	0000-1671-344						1	445 (00 (0)		1	- 1	-
5 B U	5		HF-BUCHSE, ISOLIERT		MA	LT FL 26,5		1 :	119/09/04			- 1	-
380)	0001-0068-016	#INKELKUPPL UNG	i 8 MKA 5,0	L1 4	MIKU 8		1	HIRSCHMANN		C	- 1	-
5 C	2	0001-0004-517	C-KERAMIK EDPT	100P 2%	63 V	N 150 1B	5 6	1	110/02/09		C	- 1	L
5 C	4	0000-7500-901	C-KERAMIK FOPT	ABGLEICHWE	RT	ĺ	56	1	110/02/09		1 1	- 1	I
5 C	5	0000-7500.901	C-KERAMIK EDPT	ABGLEICHWE	RT	!	56	1	113/32/09		!!!	- 1	I
5 C	7	0001-0004-465		58P 2%	63V	N 750 1B	5 6	1	110/02/09			- 1	L
5 C	11	0001-0010.093		10 102	100V	MKT 1813	56	1			ì	- 1	L
5 C	13	0001-0010-093		10 10%	100V	MKT1813	56	1	110/03/06		1	- 1	4
5 C	14	0001-0304-821		22N 20/80	40 V	R10000 2	56	1			1 1	1	L
5 C	15	0001-0004-821		22N 20/80	40V	R10000 2	56	1			1 . !	1	L
5 C	16	0001-0004-821		22N 20/80	40V	R10000 2	56	1	110/02/10		! !		-1
5 C	17	0001-0304-821	Value (special control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contro	22N 20/80	4 O V	R10000 2	56	1	1.0,00		1		L
50	18	0001-0004.821		22N 20/80 22N 20/80	40 V 40 V	R 10000 2	5 6 5 6	.1	110/02/10		1 1		-
5 C	20	0001-0004.821	process of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the	22N 20/80		IR 10000 2	56	1	110/02/10		i i		-
5 C	21	0001-0004-821		22N 20/80	40V	IR10000 2	56	1			i ì		1
50	22	0001-0004.821		08 \05 NSS	40V	R10000 2	56	1	110/02/10		1 !		1
5 C	23	0001-0004.821	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	22N 20/80	40V	R10000 2	5.5		110/02/10			1	1
5 c	24	0001-0004-821		22N 20/ 80	40V	R10000 2	56		110/02/10		1		1
50	25	0001-0004-821		22N 20/ 80	4 D V	F 10000 2	56		113/02/10		i		il
5 C	26	0001-0004-821		22N 20/ 80	40 V	K10000 2	56		110/02/10		1 !	1	L
5 C	27	0001-0004.821		22N 20/ 80	40V	R10000 2	56		110/02/10		; ;		L
5 C	28	0001-0004 - 821		22N 20/ 80		R 10000 2	56		110/02/10		i !		L
5 C	29	0001-0004-821	C-KERAMIK IDPT	22N 20/ 80	4 OV	R10000 2	56	1	110/02/10		1		L
5 C	30	0001-0004.821	C-KEFAMIK FOPT	08 / CS NSS	40 V	F 10000 2	56	1	110/32/10		1 1	- 1	L

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12-07-32

SERIC D 0907-8402-000 DA-10 907/02

AUSF: 02

TEILE PART		SACH-NR ITEM NO	DESIGNATION	BEZEICHNUNG 1 MARKING 1	PEZEICHNUNG 2 MARKING 2		WERKNORM REF.DESIG	BEMERKUNS NOTE	SERIE A
5 C	31	0001-0004.821		1 22N 20/ 80 40V	R10000 2 56	+-,	110/02/10		-
5 C	32	0001-0004.821	C-KERAMIK EDPT	! 22N 20/ 80 40V	R 10000 2 56	1	110/02/10		1 !
5 C	33	0001-0004-821		22N 20/80 40V	R10000 2 56	1		1	1 !
5 C	34	0001-0004.821	C-KERAMIK EDPT		IR10000 2 56	1	110/02/10		1 !
5 C	35	0001-0004.821	C-KERAMIK EDPT	22N 20/80 40V	IR10000 2 56	1	110/02/10		1 1
5 C	36	0001-0004-821	C-KERAMIK EDPT		IR10000 2 56	1			! !
5 C	37	0001-0004.821	C-KERAMIK EDPT	1 22N 20/ 80 40V	R10000 2 56	1	110/02/10		i
5 C	38	0001-0004.821	C-KERAMIK EDPT	22N 20/ 80 40V	R10000 2 56	1	110/02/10		1
5 C	39	0001-0010-093	C-KF MKT	1U 10% 100V	MkT1813 56	1	110/02/13		1
5 C	40	0001-0004-821		224 20/ 80 40V	I R 10000 2 56	1	110/02/10		1
5 C	42	0001-0004-821		22N 20/ 80 4DV	R10000 2 56	1	110/02/10		
5 C	50	0001-0041.910	FLKO-AL	470U 10/ 50 16V	841588 56		113/05/40		C
510	1	0001-0065.695		SN74LS DON DIP 14		1	TEXAS		
510	2	0001-0066.254	IC-TTL	ISN74LS 93N DIP 14		1	TEXAS		C!
IC	3	0001-0071.935		ISN74LS365AN DIP 16		1 1	TEXAS		1 !
510	4	0000-7547.773		9x 2K2 10% 0W14	TK250	1	018/06/01		!
IC	5	0001-0071-935		SN74LS365AN DIP 16		1	TEXAS		1 1
10	6	0001-0067_156		SN74LS D4N DIP 14		1 1	TEXAS		1 1
IC	7	0000-7555.901		SN74LS393N DIP 14		1	TEXAS		C
IC	8	0001-0068.498		IMC 14520 BCP DIP 161	MOS	1	MOTOROLA		1
10	9		R-MO DUL	9x 2x2 10% 0W141		1	018/05/01		i 1
	10	0001-0065-695		SN74LS DON DIP 14!		1	TEXAS		1
	11	0001-0015.195		SN74 38N DIP 14		1	TEXAS		!!!
	12	0000-7540-961	IC-TTL	SN74S 20N DIP 14		1	TEXAS		
	13	0001-0071-935		SN74LS365AN DIP 16		1	TEXAS		1 1
	14	0001-0071.935	IC-TTL	SN74LS365AN DIP 16		1	TEXAS		i
	16	0001-0071-537		SN74LS163AN DIP 16		1	TEXAS		i c!
	17	0001-0016-013		MC 14017 BCP DIP 16	MOS	1	MOTOROLA		
	18	0001-0015.962		SN74LS240N DIP 20		1	TEXAS		i i
	19	0001-0067-172		MC 14001 BCP DIP 14	MOS	1	MOTOROLA		1 1
	20	0001-0065-695	10-111	SN74LS 30N DIP 14		1	TEXAS		1 1
	21	0001-0056.837	10-771	SN74LS OON DIP 14	¥	1	TEXAS		! !
	22	0001-0071-919		SN74LS 74AN DIP 14		1	TEXAS		
	23	0001-0065-462		SN74LS24ON DIP 20		1	TEXAS		1
-	24	0001-0056.837	IC-TT!	IMC 14040 BCP DIP 16 SN74LS 74AN DIP 14	MOS	1	ALCROTOM		i i
	25	0001-0068.621	TC-CMOS				TEXAS		î i
	26	0001-0068-621	IC-CMOS		MOS		MOTORDLA		i i
1 C	27	0001-0071-249	IC-TTL		M O S		MOTOROLA		!!
IC	28	0001-0065-695			1		TEXAS		
IC	29	0001-0070.567			1		TEXAS		
I C	30	0000-7555 . 723		SN74LS193N DIP 16 SN74LS245N DIF 20		1	TEXAS		
C	31	0001-0071-100		SN74L5165N DIP 16			TEXAS		i i i
I C	32	0000-7578.933		MCM 66750 F DIP 241		- 1	TEXAS		î î l
IC .	33	0000-7571-668	C-NMOS	D2114AL-4 DIC 18	MOS		MOTOROLA		C
IC	34	0000-7571.668			MOS		INTFL	i	! !
I C	35	0001-0071-249		D2114AL-4 DIC 18; SN74LS 11N DIP 14;	M O S		INTEL	Í	
1 (36	0001-0056-837		SN74LS 74AN DIP 14		- 1	TEXAS	~	C
	1	0001-0042 715	FUNKENTSTOER	55U 20% 682111-E-C24	70 OR3 1A5				

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> W+G -FDV-SCHALTTEILLISTE / PART-LIST

Schaltteilliste/Parts List

SERIE D 0907-8402.000 DA-10 907/02

AUSF: 02

TEILE -NR SACH-NR BENELNUNG BEZEICHNUNG 1 FEZEICHNUNG 2 WERKNORM BEMERKUNG SERIE AF C PART NO ITEM NO DESIGNATION MARKING 1 MARKING 2 UJ REF. DESIG NUTE VERSION 508 0907-9302-002 QUARZOSZILLATOR 5.250,000KHZ BV 0907-9302.002 C - . . 0000-7585-285 R-VAR CERMET 5 P 2 1004 20% 270 14 LIN 017/02/13 0001-0006.913 R-KOHLE 0207 018/03/01 5 R 0001-0006-832 R-KOHLE 220R 5% 0207 018/03/01 (---0001-0007-035 R-KOHLE 5 R 10K 5% 0207 56 018/03/01 00011011111100 0001-0006-913 R-KOPLE 0001-0006-913 R-KOPLE 5R 1 K 5% 0207 018/03/01 56 5 R 0207 1 018/03/01 55 5R 0001-0003.660 R-METALL 187R 018/04/01 12 0207 ITK 50 56 0001-0005.592 R-METALL 5 R 365R 1% 0207 TK 50 56 018/04/01 5 R 0001-0006-832 R-KOHLE 220R 5% 0207 56 018/03/01 0001-0003.712 R-METALL 0001-0001.219 R-METALL 5R 10 536 R 0207 TK 50 1% 56 018/04/01 5R 11 1 K 12 0207 TK 50 56 018/04/01 0001-0301-219 R-METALL 0001-0000-456 R-METALL 5 R 12 1 K 12 02 07 56 018/04/01 5R 75R 1% 0207 1 TK 50 56 018/04/01 0001-0000.436 0001-0000.456 0001-0020.067 R-METALL 0001-0006.900 R-KOHLE 0001-0006.832 5 R 75R 1 % 0207 1 TK 50 56 018/04/01 5 R 17 147R 12 0207 TK 50 56 018/04/01 18 820R 0207 018/03/01 56 220R 0207 018/03/01 0000-2487 832 SUBMINAX /5C /5 V A 18,5 117/08/03 0001-0068-029 KABELWINKELSTECKER 0000-2687-832 HF-WINKELSTECKER 5 S T 8 B1 V KA 5,0 LT 4 | WIST 8 HIRSCHMANN L 551 SUBMINAX 75C 75 V A LT LP 18,5 119/08/03 0001-0017-342 TRANS SI PNP 0001-0016-987 TRANS SI NPN 5T 1 FSC 1 FSC 5 T 2 2 N 2369 (3SX 93A TO 18 0907-7726-017 UEBERTRAGER 0000-7576-728 RINGKERN 5 UE SIEMENS A R 5,8 5UE 2 AL 1980 30% | B64290-A0056-X038 0001-0010-093 C-KF MKT 0001-0010-093 C-KF MKT 0001-0004-821 C-KERAMIK EDPT 0001-0004-821 C-KERAMIK EDPT 10 10% 100v MKT1813 110/03/06 1 110/03/06 1 110/02/10 1 110/02/10 10 10% 100 V MKT1813 60 22 N 20/ 80 4 0 V R10000 2 56 6 C 22N 20/ 80 40 V R10000 2 56 0001-0004-821 C-KEPAMIK EDPT 0001-0004-821 C-KERAMIK EDPT 0001-0004-821 C-KERAMIK EDPT 0001-0004-821 C-KERAMIK EDPT 5 6 C 224 20/ 80 40 V R10000 2 1 110/02/10 1 110/02/10 56 6 6 C 2 5 N 20/ 80 40V R10000 2 56 20/ 80 1 110/02/10 22N 40 V R10000 2 20/ 80 22N 40 V R10000 2 56 1 110/02/10 0907-9312-018 IC-NMOS 0907-9313-017 IC-NMOS 710 DIC 24 EV 907-9312-018 102716-1 MOS 71C 02716-1 DIC 24 BV 907-9313.017 0907-9314-016 IC-NMOS 0907-9315-015 IC-NMOS 0907-9315-015 IC-NMOS 0907-9316-014 IC-NMOS 0907-9317-013 IC-NMOS 0907-9318-012 IC-NMOS 0907-9319-011 IC-NMOS MOS 710 DIC 24 BV 907-9314-016 DIC 24 BV 907-9315-015 DIC 24 BV 907-9316-014 D2715-1 71C D2715-1 MOS 71C P2716-1 MOS 7 I C 6 D2716-1 DIC 24|BV 907-9317.013 MOS 7 I C DIC 24 BV 907-9318-012 DIC 24 BV 907-9319-011 102716-1 MOS 710 D2716-1 405 710 0907-9320.013 IC-NMOS 02716-1

DIC 24| BV 907-9320.013

MOS

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BLATT 8 12.07.82

SERIE D 0907-8402.000 DA-10 907/02

AUSF: 02

TEILE-NR PART NO	SACH-NR ITEM NO	BENENNUNG DESIGNATIO		BEZEICH MARKING			BEZEICHNUNG :	?	MG		BEMERKUNG	SERIE A	
7 IC 10. 7 IC 11 7 IC 12 7 IC 13 7 IC 14 7 IC 15	0907-9321-01; 0907-9322-01; 0907-9323-01; 0907-9324-01; 0907-9325-01; 0907-9326-017	I IC-NMOS IC-NMOS IC-NMOS IC-NMOS	 	D2716-1 D2716-1 D2716-1 D2716-1 D2716-1 D2716-1		DIC 2	4 BV 907-9321. 6 BV 907-9322. 6 BV 907-9323. 6 BV 907-9324. 6 BV 907-9326.	011 MOS 010 MOS 019 MOS 018 MOS	1 1 1 1 1	ę.			AAAAA
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SCHALTIFILLISTE / PART-LIST

BLATT 9

12.07.92

Schalttellliste/Parts List

SERIE D. 0907-8402.000 DA-10 907/02

AUSF: 02

EILF		SACH-NE ITEM NO	BENENNUNG DESIGNATION	BEZEICHNUNG 1 FEZEI MARKING 1 MARKI			WERKNORM REF_DESIG	B FM E R K U NG NOTE	SERIE VERSI	
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BLATT 13 12.07.8c

SERIE D 0907-8402-000 DA-10 907/02

AUSF: 02

TEIL		SACH-NR	BENERNUNG	BEZEICHNUNG 1	BESEICHNAN? S	T				
PART	NO	ITEM NO	DESIGNATION	MARKING 1	IMARKING S	M 3		BEMERKUNG	SERIE A	
21c	6	0001-0004-821	C-MERAMIK FORT	1 22N 20/80 40V			REF.DESIG	NOTE	VERSIO	N
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21 c	3	0001-0004.821	C-KERAMIK FORT	22N 20/ 80 40V	R10000 2 55	1	1		D1	1
21C	9	0001-0004-821	C-KERAMIK EDET	22N 20/ 80 4DV	R10000 2 56 R10000 2 56	1		1	D1	1
21 C	10	0001-0004.821	C-KERAMIK EDPT	224 20/80 40V	IR10000 2 56		110/02/10	1	D!	L
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21 C	13	0001-0004.821 0001-0004.821	C-KERAMIK EDPT	22N 20/80 40V	R10000 2 55		110/02/10		D	L
21 C	14	0001-0004-821	C-KERAMIK EDPT	22N 20/ 80 40V	R10000 2 56	1			D1	L
21 C	15	0001-0004-821	C-KEPAMIK EDPT	22N 20/80 40V	IR 10000 2 56	1	110/02/10		D!	L
21 c	16	0001-0004.821	C-KERAMIK FOFT	22N 20/80 40V 22N 20/80 40V	R10000 2 56		110/02/10		D	L
21c	17	0001-0004-821	C-KERAMIK FORT	1 22N 20/80 40V 1 22N 20/80 40V	R10000 2 56		110/02/10		D	L
21 C	18	0001-0004-821	C-KERAMIK FORT	22N 20/80 40V	R10000 2 56	1	110/02/10		D	L
210	19	0001-0004-821	C-KERAMIK EDFT	224 20/ 80 40V	R10000 2 56 R1000C 2 56	1	110/02/10		D	L
21 c 21 c	20	0001-0004-821	C-KERAMIK EDPT	224 204 00		1	110/02/10		D	L
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21 I C	18	0001-0066-267	IC-TTL	SN74LS109AN DIP 16		1	TEXAS	!	D	L
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SCHALTTFILLISTE / PART-LIST

BLATT 1 12.07.82

Schaltteilliste/Parts List

SERIE 0907-8400-109 OPTION 907/00-10 AUSF:

SLRI	E	0907-8400-109	OPTION S	707/00.10	AUSF	:							
TE IL PART		SACH-NR ITEM NO	BENENNUNG DESIGNATIO	I N	BEZEICHN MARKING			HEZEICHNUNG ?		MG	THE RESERVE AND ADDRESS OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE	DEMERKUNS NOTE	SERIE AF C
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Schalttelliste/Parts List

0907-8400.109 OPTION 907/00.10

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Bei Bestellung Sach-Nr. angeben! When ordering, quote Item No

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BLATT 3 12.37. Schaltteilliste/Parts List

SERIE 0907-8400_109 CP110N 907/CP_10

AUSF:

TEILE-N		BENEFILLING	HEZEICHNUN	6 1	GELLET CHANNES 2				
PART NO	ITEM NO	DESIGNATION	MARKING 1	u ,	GEZEICHNUNG 2 MARKING 2		MACKANAM	BEMERKUNG	SERIE AF C
15R 30	1 0004 005		-	-	Industric C	Gr	REF DESIS	NOTE	VERSION
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15REL 2	1 0000-7568-176	RELAIS GEPOIT KARTEN	400 AH 121	72 OR HD	S4-12V	1	SDS		1 ! .
15REL 3	10000-7568-176	IRELAIS GEPOLT KARTEN!	4 DO AH 12.	720R HD	S4-12V	1	SDS		! ! !
15REL 4	· UUUU-/568 <u>- 176</u>	IRELAIS GEPOLT KAPTENI	400 AH 431		154-12V	1	SDS		! !!
15 REL	1 0000-1368-176	RELAIS GEPOIT KARTENI	400 AH 124	72 OR HD 72 OR HD	[S4-12V	1	SDS		
15REL C	0 0000-7550-074	RELAIS GEPOIT KAPTEN!	220 AH 124	720R HD 720R HD	S4-12V	1	SDS		
15REL 7	10000-7568-176	RELAIS GEPOLT KAPTEN!	400 AH 421	720R HD	S2-12V	1			1 1
15REL 8	10000-7568-176	RELATS GEPOLT VARTEN	400 AU 434	720R HD	S4-12V		SDS		i []
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BLATT 9

12.07.82

Schaltteilliste/Parts List

SERIE 0907-8400-109 OPTION 907/00-10 AUSF:

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BLATT 10 12.07.5

SERIE 0907-8400-109 OPTION 907/00-10 AUSF:

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8 R	2	0001-0007-077	R-KOHLE		207	56		18/03/01		1 6	1
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BEATT 11

12.07.82

Schaltteilliste/Parts List

SERIE 3907-8400-109 OPTION 907/00.10

AUSF:

PART	-NR	SACH-NR ITEM NO	DESIGNATION	BEZEICHNUN	G 1		BEZEICHNUNG Z MARKING 2	MG	WERKHORY REF.DESIG	SEMERKUNG NOTE	SERIE VERSI	
18 R	7	0001-0004 017				0 - 0 7		-			1	3
18R	3	0001-0006-913		1 K	5%	0207	56	1	018/03/01		!!!	- 1
18R	4 . 5	0001-0007-006		5 K 6	5 %	0207	56	1	018/03/01		1	
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18 R	6	0001-0007-006		5 K 6	5%	0207	56	1	018/03/01		1 1	
18 R	8			1 K	5%	0207	56	1	018/03/01		! !	
18R	9	0001-0006-858		330R	5%	0207	5.5	1	018/03/01		1 1	- 1
18R	10	0001-0006-858		330R	5%	0207	56	1	018/03/01		1	
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18R	14	0001-0007.006		5 K 6	5 %	0207	56	1	018/03/01		1	
18 R	15	0001-0007.035		10K	5 %	0207	56	1	018/03/01	1	1	
18R	16	0001-0007.035	R-KOHLE	10K	5 %	0207	56	1	018/03/01	1	1	
18 R	17	0001-0007.077	R-KOHLE	2 S K	5%	0207	56	1	018/03/01		j 1	
18 R	18	0001-0007.077		55K	5 %	0207	56	1	018/03/01		j 1	
18 R	19	0001-0007-077		2 S K	5 %	0207	56	1	018/03/01		1	
BR	20	0001-0007.077		55 K	5%	0207	56	1	018/03/01		1	
8 R	24	0001-0007-077		2 2 K	5 %	0207	56	1	018/03/01		1 [
8 R	25	0001-0007-077		55K	5 %	0207	1 56	1	018/03/01		! !	
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BR	5.8	0001-0006.858		330R	5%	0207	56	1	018/03/01		i i	
8 R	30	0001-0006.858		330R	5%	0207	56	1	018/03/01		1 1	
8 R	31	0001-0006-858		330 R	5%	0207	56	1	018/03/01		1	
8 R	32	0001-0006-858	R-KOHLE	330R	5%	0207	56	1	018/03/01		1 :	
8 R	33	0001-0006-858		330 R	5%	0207	56	1	018/03/01		1 1	- 1
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8 P	35	0001-0006-858		330 R	5%	0207	1 56	1	018/03/01		1 [
8 R	36	0001-0006-858		330R	5%	0207	56	1	018/03/01			1
8 R	37	0001-0006.845		270R	5%	0207	56	1	018/03/01		! . !	
8 R	38	0001-0006-803		120R	5%	0207	. 56	1	018/03/01			
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8 R	43	0001-0006-803		120R	5 %	0207	56	1	018/03/01		i 1	
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8 R	45	0001-0006-803	R-KOHLE I	120R	5%	0207	56	1	018/03/01		1 1	
8 R	46	0001-0006-803		120R	5%	0207	56		018/03/01		1 1	
R R	47	0001-0005.803		120R	5%	0207	56	1	018/03/01		!!!	-
8 R	48	0001-0006.803	R-KCHLE	120R	5%	0207	56	1	018/03/01		1 1	- 1
8 R	49	0001-0006-803		120R	5%	0207	56		018/03/01		1 1	
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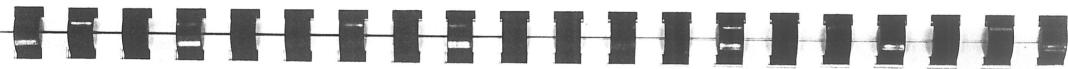
BLATT 12 14.07.8 Schaltteilliste/Parts List

SERIE 3907-8400.109 OPTION 907/00.10

TEILE-NR SAC	CH-NR	BENENNUNG	BEZEICHNUNS	4					
PART NO ITE	EM NO	DESIGNATION	MARKING 1	1	REZEICHNUNG 2 MARKING 2		WERKNORM REF-DESIG	3 LMERKUNG NOTE	SERIE AF
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SCHALTTFILLISTE / PART-LIST

BLATT 1 12.07.32

Schalttellliste/Parts List

SERIE 0907-8400_138 OPTION BN 907/00_13 AUSF:

TEIL	1 -NR	SACH-NR	BENENNUNG	HEZEICHNUNG 1	BESEICHNUNG S	MG	WERKNORM	REMERKUNG	CLUIE AF	
FART	NO	ITEM NO	DESIGNATION	MARKING 1	MARKING 2	QU		NOTE	SERIE AF	
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3 C	17	0001-0004-821	C-KERAMIK EDPT		R10000 2 56				!!!	L
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3 C	24	0001-0004-818			R 10000 2 56		110/02/10			L
3 C	25	0001-0004-821			R10000 2 56		110/02/10		1	L
3 C	26				R10000 2 56		110/02/10	i		L
30	27	0001-0004-821	C-KERAMIK EDPT		R10000 2 56	.1	110/02/10	Í	1 1	L
3 C	28	0000-7500.901	C-KERAMIN EDFT	ABGLEICHWERT	56	1	113/32/09	1		1
	-	0000-7500-901		ABGLEICHWERT	56	1	110/02/09	ı	1 1	I
3 C	29	0000-7500.901		ABGLEICHWERT	56	1	110/02/09	1	1	1
30	30	0000-7500-901	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	ABGLEICHWERT	5.5		110/02/09	!	1 1	ī
3 C	31	0001-0004-821	C-KERAMIK EDFT	22N 20/ 80 40V	F10000 2 56		110/02/10	!	1 1	
7.0		0004 05		i				!		-
3 G L	1	0001-0018-493		1 N 4448 DO 35!	1	1	111	!	i 1	c
36L	2	0001-0018.493		1 N 4448 DO 35		- 1	îtt ·		1 1	cl
3 GL	3	0001-0018.493		1 N 4448 DO 351		1	ITT		1 1	_
3 GL	4	0001-0018.493		1 N 4448 DO 351			111		1 1	C
3 G L	5	0001-0018.493	DIODE SI	1 N 4448 DO 35!		- 1	171	!	1 1	5
3 GL	6	0001-0018-493		1 N 4448 DO 35			ITT		1 1	C
			,	351	Ţ	. 1	1 1	1	1 (C
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HLATT 2 12-07-82

Schaltteilliste/Parts List

SERIE 0907-8400.138 OPTION BN 907/00.13 AUSF:

TEILE-NI	onen an	BENENNUNG	BEZEICHNUNG 1		PESEICHNUNG S	MG	WERKNORM	BEMERKUNG	7
FART NO	ITEM NO	DESIGNATION	MARKING 1		MARKING 2		REF. DESIG	NOTE	SERIE AF
361	2 00011 0001		+				KIT - DE 316	NOTE	VERSION
	7 0001-0018-493		11 N 4448	00 35		1	171		
			1 N 4448	00 35		1	ITT 4		1 1
		BIODE SI	1 N 4448	00 35		1	ITT -		! ! !
100000000000000000000000000000000000000		DIODE SI	1 N 4448	00 351		1	177		
			11 N 4448	00 351		1	ITI	1	! !!
3GL 12		DICOL SI	11 N 4448	00 351		1	111		1 1
3GL 13	1	DIODE SI	1 N 4448	00 35!		1	111	1	1 1
3GL 14		DIODE SI	1 N 444R	00 35		1	ITT	1	!!!
3GL 15		DIODE SI	1 N 4448	00 35		1	111		1 1 1
3GL 16		DIODF SI	1 N 4448	00 351		1 1	111		1 1
3GL 17		DIODE SI	11 N 4448	00 351		1 1	ITT		i i 1
36L 18		DIODE SI	11 N 4448	00 35		1	ITT		1 1
36L 19		DIODE SI	1 N 4448	00 35		1	ITT		1 1
3GL 20		DIODE SI	1 N 4448	00 35		1	111		
3GL 21		DIODE SI	11 N 444R	00 35		1 1			1 1
3 GT 55	0001-0018.493	DIODE SI	11 N 444R	00 351		1 .1	ITT		1 1
3 GL 23		DIODF SI	1 N 4448	00 351			ITT		1 1
3GL 24		DIODE SI	1 N 4448	00 35!			ITT		!!!!
3GL 25	0001-0018.493	DIODE SI	11 N 444R	DO 35		1	III		
3GT 59	0001-0018.493	DICDE SI	1 N 444R	00 351			111		! ! (
3GL 27	0001-0018.859	DIODE SI Z-	IZPD 5.6	00 351			ITT		! 0
3GL 54	0001-0018-493	DIODE SI	11 N 4448	00 351		1	111		! !!
3GL 56	0001-0018.493	DIODE SI	1 N 4448	00 35			111		
3GL 57	0001-0018.493	DIODE SI	11 N 4448	DO 35			ITT		1 0
3GL 58			1 N 4448	00 35!			ITT		1 1 0
3GL 59	0001-0018.493	DIOUE SI	1 N 4448	00 35!			ITT		1 1 0
36L 60	0001-0018.493	DIODE SI	11 N 444B	00 35			111		1 C
3GL 61			11 N 444B	DO 35		1	ITT		C
36L 62			1 N 4448	DO 351			III		1 C
36L 64	0001-0018.493	DIODE SI	1 N 4448	00 351		1	111		1 0
36L 66	0001-0018-493	DIODE SI	1 N 4448	00 35			111		!! C
3GL 68			1 N 4448	00 35			111		! ! c
3GL 70			1 N 4448	00 35		1	111		! C
3GL 72	0001-0018.493		1 N 444B	00 35		1 1	177		C
36L 74			1 N 4448	DO 35		1 1	177		i i c
3GL 76		DIODE SI	11 N 4448	DO 351			ITT		i i c
3GL 78	0001-0018-493	DIODE SI	1 N 4448	00 35		1	111		C
3GL 80	0001-0018-493		1 N 4448	DO 35		1 1	111		1 C
36L 82	0001-0018-833		ZPD 5.1			1 1	1 T T		C
3GL 88	0001-0018.493		1 N 4448	DO 35		1	111		
3GL 89	0001-0018.493		1 N 4448	00 351			177		C
3GL 90	0001-0018.493	DIODE SI	1 N 4448	00 351		1 1	177		C
3GL 91	0001-0018.493	DIODE SI	1 N 4448			1	111		C
3GL 92	0001-0018-493		1 N 4448			1	111		C
			4440	DO 35		1 1	TT	i	j c
31C 1	0000-7570-614	15-111	MC 1488 L	0.7.6 4.1				j	1 1 1
310 2	0000-7573-614		MC 1488 L	DIC 14			ALCROTO	1	! A
31C 3	0000-7570-614		MC 1488 L	DIC 14	ĺ	1 1	AJCROTCI	i	A
3 IC 4	0001-0059-164			DIC 141	,		ALCROTOL	i	A
31C 10	0001-0071.935		SN74 17N	DIP 14		1 T	EXAS	i	
31C 11	0000-7547 245		SN74LS365AN	DIP 16	l		EXAS	i	
	1 2000 1 341 82031	AS BUILDING TON GUAD	F2 324 M	DIP 141	I	1 N	SC	1	1 11
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SCHALTTFILLISTE / FAKT-LIST

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Schaltteilliste/Parts List

SERIE 0907-8400.158 OPTION 9N 9U7/00.13 AUSF:

		*						•		
TEILE-NR	SACH-NA	BENERNUNG	BEZEICHNUNG 1		HEZEICHNUNG 2	MS	WERKYORS	BEMERKUNG	SERIE AF	1
PART NO	ITEM NO	DESIGNATION	MARCING 1		MARKING 2		REF.DESIG	NOTE	VERSION	
31C 12	0001-0369.701	IC-TTI	1 SN 74 L S366AN	DIP 16		1	TEXAS		1 :	1
3 IC 13	0001-0071-935		SN74LS365AN	DIP 16		1	TEXAS		!	1:
31C 14		IC-KOMFARATOR DUAL	LM 1414 N	DIP 14		1	NSC	1	! !	1:
310 16		IC-OP-VERST-	LM 318 H	TO 99		1	NSC		1 1	1:
3 IC 17	0001-0059.701		SN74LS366AN	DIP 16		1		1	! 1	1:
31C 19	the second section is not a room of	1000000	11M 339 N	DIP 14		1	TEXAS	1	! !	1.
310 20			LM 339 N	DIP 14		1	1100		!!	1
31C 21		IC-KOMFARATOR WUAD	1LM 339 N	* I I I I I I I I I I I I I I I I I I I	İ	1	NSC			1
310 22		IC-KOMPARATOR QUAD	LM 339 N	DIP 14		1	NSC			1.
310 23	and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th		100 00 00 000 000 000 000 000 000 000 0	DIP 14		1	NSC	l	1 1	L
310 23	0000-7547.285	IC-KOMPARATOR QUAD	LM 339 N	DIP 14		1	NSC		i i i	1
3R 3	0001-0006.984		1 3K9 5X	0207	56	1	018/03/01		1 !	0
3R 4	0001-0006.984	R-KOHLE	! 3K9 5%	0207	56	1	018/03/01		1 1	1
3 R 5	0001-0006.984	R-KOHLE	3K9 5%	0207	5.6	1	018/03/01		! ! !	1
3R 6	0001-0006.984	R-KOHLE	3 4 9 5%	0207	56	1	018/03/01		! ! !	0
3R 7	3001-3036.984	R-KOHLE	3 K9 5%	02 07	5.5	1	013/03/01		! ! !	0
3 R 8	0001-0006.984	R-KOHLE	1 3K9 5%	0207	56	1	018/03/01		1 1	0
3R 9	0001-0006.984		3K9 5%	0207	56	1	018/03/01	i i	1 1	1
3R 10	0001-0006-984		3 K9 5%	0207	56	1	018/03/01		1 1	0
3R 11	0001-0006.984		! 3K9 5%	0207	56	1	018/03/01		1 1	0
3R 12	0001-0006-984		3K9 5%	0207	56	1	018/03/01		1 ! !	0
3 R 13	0001-0006-984		3K9 5%	0207	56	1	018/03/01		i !	1
3R 14	0001-0006.984		3K9 5%	0207	56	1	018/03/01		1	C
3R 15	0001-0007.006		5K6 5%	0207	56	1			1 ! !	
3R 21	0001-0006-971		3 K3 5%	0207	56	1	018/03/01		!!!	C
3R 22	0001-0006-971	R-KOHL E	3K3 5%	0207	56		018/03/01		! ! !	0
3R 23		R-KOHLE	820K 5%				018/03/01		! ! !	C
3R 24	0001-0003.110			0207	56		018/03/01		! ! !	C
3R 25	0001-0002.700		A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA		TK 50 56	1 1	018/04/01		! ! !	L
3R 28	0001-0002-700		100 10 100 100		TK 50 56	1 1	018/04/01		!!!	L
3R 29	0001-0006.971		3 K 3 5 %	0207	5.6	"	018/03/01			C
3R 30		R-KOHLE	3K3 5%	0207	56	1 1	018/03/01		1 1 1	C
3R 31	0001-0007-271		820K 5%	0 20 7	56	1	018/03/01		1 1	C
12 40	0001-0003-084		137k 1%		TK 50 56	1	018/04/01		1 1	L
	0001-0002.700		44K2 1%		TK 50 56		018/04/01		i i i	L
3R 34	0001-0007-093		33K 5%	0207	56	1	018/03/01		1 1	C
3R 35 3R 37			1 1 5%	0207	56	"	018/03/01		1 1	C
	0001-0002-357		1788 1%		TK 50 55		018/04/01		1 ! !	L
	0001-0006.913		1 K 5%	0207	56	1	018/03/01		1 ! !	C
	0001-0001-785		4K42 1%	0207	TK 50 56	1.1	018/04/01			L
3R 40	0001-0001-316		1 K33 1%	0207	TK 50 55	1	015/04/01		1 1 1	L
3R 43	0001-0002.357		1748 1%		TK 50 56	1	018/04/01		!!!	L
3R 44	0001-0006.913		1 K 5 X	0207	5.5	1	018/03/01		1 1	C
3R 45	0001-0001.756		1 4K12 1%	0207	TK 50 56	1	018/04/01		i 1	L
3R 46	0001-0001.316		1 k 3 3 1 %	0207	TK 50 56	1	018/04/01		i i l	L
3R 48	0001-0307-093		33K 5%	0207	56	1	018/03/01		1 1	C
3 R 50	0001-0007.093		33K 5%	0207	56	1	018/03/01		1	(
3R 51	0001-0007.284		1 1 5%	0207	5 6	1	018/03/01		1 ! !	C
3R 53	0001-0006-971		3K3 5%	0207	5 6	1	018/03/01		1 1	C
3 R 54	0001-0006-971		3K3 5%	0207	5.5	1	018/03/01		!	C
3R 55	0001-0007-271		820K 5%	0207	56	1	018/03/01		i ; 1	C
3R 56	0001-0003.110									

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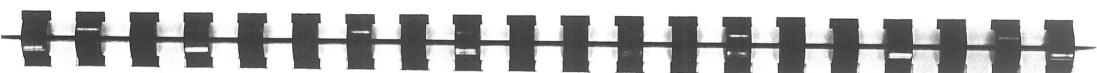
Schaltteilliste/Parts List 12-07-82

SERIC 0907-8400-138 OPTION AN 907/60-13 AUSF:

PART	NO NO	SACH-NR ITEM NO	BENENNUNG DESIGNATION	BEZEICHN			MARKING S	ā		WERKNORM REF_DESIG	BENERKUNG	SERIE AF
34	57	0001-0002-700	R-METALL	1 44 K 2	12	0203	1		-			VE 1.310A
3 R	60	0001-0005-971	R-KOHLE	3K3	5%	020 7 020 7	TF 50	5 6	1	318/04/01		,
3 R	61	0001-0005-971	R-KOHLE	3 K 3	5 %	0207	1	5 6	1	018/03/01		i i l
3 R	62	0001-0007.271	R-KOHLI	820K			!	56	1	018/03/01	1 .	i i l
3 R	53	0001-0003.084	R-METALL	137K	5%	0207		56	1	018/03/01		i ! !
3R	64	0001-0002.700	R-METALL		1 %	0207	ITK 5C	56	1	018/04/01		1 ! !
3 R	66	0001-0007.093	R-KOHLE	1 44K2	1 %	0207	TK 50	56	1	018/04/01	1	
3 R	67	0001-0007.284		1	5%	02 07	i	5 5	1	018/03/01		i i
3 R	69	0001-0006.971	B-KOHI C	1 M	5 %	0207	i	56	1	018/03/01		i
3R	7.0	0001-0006-971	P-KUHIC	1	5 %	0207	1	56	1	018/03/01		1 1
3 R	71	0001-0007.271	B-KOHLE	3 k 3	5 %	0207	!	5.5	1	018/03/01		
3 R	72	0601-0003-110	B-METALL	1 850K	5 %	0207	!	56		018/03/01		
3R	73	0001-0002.700	R-TETALL	150k	1 %	0207	TK 50	5.5		018/04/01		1 1 1
3 R	76	0001-0004-700	N-WEINEE	44K7	12	0207	TK 50	56		018/04/01		1 1
3 R	77	0001-0006-971	K-KOHLE	3 K 3	5%	0207	i	56		018/03/01		1 1 1
3 R	78	0001-0006.971	R-KOHLE	1 3K3	5 %	0207	i	56		018/03/01		1 1
3 R	79	0001-0007-271	R-KOHLE	820K	5%	0207	i	5.6				i i
		0001-0003-084	R-METALL	137K	12	0207	ITK 50	56		018/03/01		1 1
3R	80	0001-0002.700	R-METALL	44KZ	1 %	0207	TK 50			018/04/01		1 1 1
3 R	8 2	0001-0007-093	R-KOHLE	! 33K	5%	0207	1.6 30	56		018/04/01		1 1
3 R	83	0001-0007-284	R-KOHLE	1 14	5%	0207	!	56		018/03/01		1
3 R	85	0001-0006.971	R-KOHLE	3 K 3	5 %	0207	1	56	1 1	018/03/01		1 ! ! !
3 R	86	0001-0306-971	R-KOHLE	3 K 3	5%	0207	1	56		018/03/01		1 1 1
R	87	0001-0007.271	R-KOHLE	820K	5%	0207	i	5.6		018/03/01		! ! !
3 R	88	0001-0003-110	R-METALL	150K	1 %	0207	124 50	56	1	018/03/01		! ! ! !
3 R	89	0001-0002-700	R-METALL	1 44KZ	12	0207	TK 50	5 6	1	018/04/01		1 11
3 R	92	0001-0006.971	R-KOHLE	3K3	5%	0207	TK 50	56		018/04/01		1 11
S R	93	0001-0006-971	R-KOHLE	3 K3	5 %	0207	Ĩ	56	1	018/03/01		i c
R	94	0001-0007-271	R-KOHLE	820K	5%		1	5 6	1	018/03/01		i ! c
R	95	0001-0003.084	R-METALL	137K	1%	0207	1	56	1	018/03/01		i c
SR	96	0001-0002.700	R-METALL	44KZ		0207	TK 50	56	1 1	018/04/01		i i
R	98	0001-0007-093	R-KDHLF		1 %	0207	TK 50	56	1	018/04/01		1 1
R	99	.0001-0007-284	R-KOHL F	33K	5%	0207	!	56	1	018/03/01		i c
R	101	0001-0006-971	D-KUNI C	1 M	5 %	0207	!	56		018/03/01		
	102	0001-0006-971	B-KONIE	3 K3	5 %	0207		56		018/03/01		
	103	0001-0007.271	D-KOHLE	3K3	5 %	0207	1	56		018/03/01		C
	104	0001-0003-110	D-MEYALI	820K	5 %	0207	i	56		018/03/01		
	105	0001-0002-700	D_METALL	150K	1 %	0207	ITK 50	56		018/04/01		i c
	108	0001-0006-971	R-METALL	44KZ	1 %	0207	TK 50	56		018/04/01		1
	109	0001-0006-971	K-KUHLE	3 K 3	5 %	0207		56	1 1 1	018/03/01		! L
		0001-0008-971	K-KOHLE	3 K3	5 %	02 07	i	56		018/03/01		C
	111	0001-0007-271	K-KOHLE	850K	5%	0207	1	56		018/03/01		C
	112	0001-0003-084	R-METALL	137K	1%	0207	ITK 50	56				! C
		0001-0302-700		44KZ	1 %		ITK 50	5 6		18/04/01		L
		0001-0007.093	-KOHTE	33K	5%	0207	1	56		18/04/01	!	
		0001-0007-284	R-KOHLE	2 PM	5 %	0207	!			18/03/01	;	i c
	16	0001-0006-971 F	S-KOHFE	3 K 3	5%	0207		56		18/03/01	i	i c
	17	0001-0006-971 R	-KOHLE	3 K 3	5%	0207	i	56		18/03/01		i c
	18	0001-0007-271 F	I-KOHLE	820K	5%	0207	!	5.6		18/03/01		i c
	19	0001-0003-110 R	-METALL	150K	12		176 50	56		18/03/01	1	! c
	20	0001-0002.700 R	-METALL	44K2			ITK 50	5.5	1 0	18/04/01	i	! []
1	23	0.001-0006.971 8	-KOHLE	3K3	1%		TK 50	56	1 0	18/04/01		! [1]
	24	0001-0006-971 R	-KOHFE	20000	5%	0207	i	56		18/03/01		1 1
				3 K 3	5 %	02 07		56		18/03/01	!	

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S C H A L T I F I L L I S T E / P A R T - L I S T

Schalttelliste/Parts List
SEKIE 0907-8400-13

0907-8400_138 OPTION PN 907/70_13 AUSF:

TEILE-NA SACH-NR BENENNUNG MARKING S CESTEICHNUNG S BEZEICHYUNG 1 MS WERENDEM BEMERKUNG CN MATI SERIE AF C PART NO DESIGNATION MARKING 1 REF_DFSIG VERSION 0001-0007-271 R-KOHLE 0207 018/03/01 126 0001-0003-084 R-METALL 137K 0207 TK 50 015/04/01 0001-0002-700 R-METALL 0001-0007-093 R-KOHLE 3 R 127 44K2 33K 0207 TK 50 56 55 018/04/01 129 5% 0207 0001-0007.284 R-KOHLE 0001-0006.971 R-KCHLE 018/03/01 130 1 M 5% 0207 56 3 R 132 018/03/01 3 K 3 0207 56 018/03/01 3R 133 0001-0336.971 R-KOPLE 3 K 3 0207 018/03/01 3 R 0001-0007.271 R-KOHLE 134 820K 5% 0207 135 0001-0003-110 R-METALL 0001-0002-700 R-METALL 56 018/03/01 150K 12 0207 TK 50 56 018/04/01 44KZ 1% 0207 018/04/01 0001-0006-971 R-KOHLE 56 3 R 139 3 K 3 0207 56 018/03/01 3R 140 0001-0006-971 R-KOHLE 00001100000 0001-0000-771 R-KOHLE 0001-0007-271 R-KOHLE 0001-0003-084 R-METALL 0001-0002-700 R-METALL 3 K 3 0207 018/03/01 3 R 141 820K 5% 0207 56 56 018/03/01 142 137K 1% 0207 TK 50 018/04/01 3 R 44K2 0207 0207 1% TK 50 018/04/01 018/03/01 56 3 R 145 0001-0007-093 R-KOHLE 33K 5 6 146 148 3 R 0001-0007-284 R-KOHLE 7 M 0207 56 018/03/01 0001-0006-971 R-KOHLE 3 K 3 5% 0207 0001-0006 -971 R-KOHLE 56 018/03/01 5 % 3 K 3 02 07 56 018/03/01 0001-0007.271 R-KOHLE 3 R 150 820K 5% 0207 018/03/01 151 0001-0003.110 R-METALL 150K 0207 ITK 50 018/04/01 3R 152 0001-0002.700 R-METALL 44KZ 0207 1TK 50 155 0001-0006 . 971 R-KOHLE 5% 5% 5% 3 K 3 0207 0001-0006.971 R-KOHLE 0001-0007.271 R-KOHLE 018/03/01 156 3 K 3 56 56 56 0207 018/03/01 018/03/01 3 R 0207 3R 158 0001-0003-084 R-METALL 137K 0207 TK 50 TK 50 3R 1 018/04/01 0001-0002-700 R-METALL 0001-0307-093 R-KOHLE 159 44K2 0207 56 56 56 1 018/04/01 3 R 161 5% 5% 5% 33K 0207 0001-0007-284 R-KOHLE 1 018/03/01 162 1 4 0207 0001-0006-971 R-KOHLE 0001-0006-971 R-KOHLE 3R 164 1 018/03/01 3 K 3 1 018/03/01 1 018/03/01 0207 56 3R 165 3 K 3 0207 3 R 0001-0007.271 R-KOHLE 166 850K 5% 0207 56 56 56 0001-0003.110 R-METALL 0001-0302.700 R-METALL 0001-0006.971 R-KOHLE 0001-0006-971 R-KOHLE 018/03/01 3R 167 1 % 1 % 5 % 150K 0207 TK 50 018/04/01 44KZ 0207 018/04/01 018/03/01 3 R 3 K 3 0207 3 R 5 % 5 % 3 K 3 0207 018/03/01 0001-0007 . 271 R-KOHLF 173 820K 0207 56 0001-0003.084 R-METALL 0001-0002.700 R-METALL 018/03/01 3R 174 137K 1 % 1 % 5 % 0207 1 018/04/01 56 44K2 0207 3 R 3 R 0001-0007.093 R-KOHLE 0001-0007.284 R-KOHLE 33K 0207 1 018/03/01 178 1 M 5% 0207 0001-0006-971 R-KOHLE 0001-0006-971 R-KOHLE 0001-0007-271 R-KOHLE 0001-0007-271 R-KOHLE 0001-0003-110 R-METALL 56 1 018/03/01 3R 180 5 % 5 % 5 % 1 % 3 K 3 0207 018/03/01 56 181 0207 56 1 018/03/01 182 820K 0207 56 3 P 018/03/01 150 0207 TK 50 56 3 R 184 0001-0002-700 R-METALL 018/04/01 44K2 0207 TK 50 018/04/01 0001-0006-971 R-KOHLE 187 3 k 3 5% 018/03/01 3 R 0001-0306.971 R-KOHLE 0001-0007.271 R-KOHLE 0001-0003.084 R-METALL 188 3 K 3 5% 0207 1 013/03/01 820k 5 % 1 % 0207 56 3 R 018/03/01 TK 50 018/04/01 191 0001-0002 - 700 R-METALL 44KZ 0207 1 018/04/01

Bei Bestellung Sach-Nr angeben! When ordering, quote Item No.

SERIF 0907-8400.138 OPTION BN 907/00.13 AUSF:

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TEILE-N	R SACH-NR	BENENNUNG					1		,
PART NO	ITEM NO	DESIGNATION		MARKING 2	MG	#ERKNORM PEF.DESIG	HEMERKUNG	SERIE AF	
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3R 19				56		018/03/01		i 1	C
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3R 19			1 820K 5% 0207	56	1			i ! !	C
3R 200		D-METALL		TK 5C 56	1			1	L
3R 20			44K2 1% 0207	TK 50 56	1	018/04/01	1	1 1	L
3R 204		B-KONLE	3k3 5% 0207	i 55	1	018/03/01	1	1 1	c
3R 20			3K3 5% 0207	56	1	018/03/01		1 1	c
3R 20			820k 5% 0207	56	1	018/03/01		1 1	c
3R 20				TK 50 56	1	018/04/01		1 ! !	L
3R 209			44K2 1% 0207	TK 50 56	1	018/04/01		(!	L
3R 210			33K 5% 0207	56	1	018/03/01		1 1	c
3R 21			1M 5% 0207	56	1	018/03/01		1 1	c
3 K 21	0001-0006.887	R-KOHLE	560R 5% 0207 (56.	1	018/03/01		1 1	c
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3 REL 2	0000-7568-176	RELAIS GEPOLT KARTEN	400 AU 12V 720R HD	S4-12V	1	SDS		, , ,	
3REL 3	0000-7568-176	RELAIS GEPOLT KARTEN	400 AU 12V 720R HD	54-12V	1	SDS			
SREL 4	0000-7568-176	RELAIS GEPOLT KARTEN	400 AU 124 720R HD	S4-12V	1	SDS		1 1	
3 REL 5	0000-7568-176	RELAIS GEPOLT KARTEN	400 AU 12V 720R HD 1	S4-12V	1 1	SDS		1 1	-
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16BU 1	0000-7567-562	D-STECKVERB. (M)A3GEW	25 2 2,77X2,84 S1 AU	444803 4				! ! !	
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16C 1	0001-0004.821	C-KERAMIK EDPT	22N 20/80 40V	R100G0 2 56	1	110/02/10		!!!!	.
16C 2	0001-0004-821			R 10000 2 56	1 .1			! ! !	L
16C 3	0001-0004-821	C-KERAMIK EDPT I		R10000 2 55		110/02/10		! !!	
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16C 6	0001-0010-145	C-KF MKT	2.112	MKT1813 56		113/03/06		!!!	-
16C 7	0001-0010.145	C-KF MKT		MKT1813 56		110/03/06			
166L 1	0000-7574 884	150 60050 700							
16GL 2	, , , , , , , , , , , , , , , , ,		LD 37 I PD 77		1	114/03/03			L
16GL 2		· · ·	LD 37 I PD 77		1	114/03/03			
166L 4			LD 37 1 PD 77		1	114/03/03			L
	0000-7536-881		LD 37 I PD 77		1	114/03/03	i i	1 11	L
166L 5			LD 37 I PD 77			114/03/03		1 1	L
16GL 6		LED GRUEN 3MM	LD 37 I PD 77			114/03/03		1 1	
16GL 7		LED GRUEN 3MM	LD 37 I PD 77			114/03/03			
166L 8			LD 37 1 PD 77			114/03/03	i	1 1	
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16GL 10		LED GRUEN 3MM	LD 37 I FD 77			114/03/03	1	! ! ! !	
6GL 11			LD 37 I PD 77			114/03/03	!	! ! ! !	
6GL 12	0000-7536-881		LD 37 I FD 77			114/03/03		1 11	
166L 13	0000-7536.878	1	LD 30 II PD 77			114/03/03		1 11	
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Bei Bestellung Sach-Nr. angeben! When ordering, quote item No.

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S C H A L T T F I L I I S T E / P A R T - L I S T

Schafttelliste/Parts List

BLATT 7 12.07.52

SERIE 0907-8400_138 OPTION BN 907/00_13 AUSF:

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	E-NR		BENENNUNG	BEZEICHNUNG 1	BEZEICHNUNG Z	46	WERKNORM	BEMERKUNG	SERIE AF C	7
PART	NO	ITEM NO	DESIGNATION	MARKING 1	MARKING 2	QU		NOTE	SERIE AF C	1
1661	19	0000-7536.878	LED ROT 3MM	ILD 30 II PD 77	1	-			-	4
166L	20	0000-7536.878	LED ROT SMM			1	114703703		i i L	-
166L	21	0000-7536-878	LED BOT 3MM			1	114/03/03		i L	.
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16GL		0000-7536.878	LED DOT THE	LD 30 II PD 77		1	114/03/03		i ! i	1
16GL		0000-7536-676	· · · · · · · · · · · · · · · · · · ·	ILD 30 II PD 77		1	114/03/03		! ! ! .	1
liogr	2.4	0000-7536-878	LED BOT 3MM	LD 30 11 PD 77		1			!!!	1
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16 R	1	0001-0005-202	K-KOHLE	330R 5% D411	56	1	018/03/01		1 1.	
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16ST	1	0000-7546-839	D-STECKVERB . (V) ABGEN	1 25 2 2,77X2,84 S1 AU	164494-1	1	119/05/16		i i I.	1
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18C	1	0001-0004-698	C-KERAMIK EDPT	1N 10% 63V	R 2000 2 55		110/03/40			1
18C	2	0001-0004-698	C-KERAMIK EDFT				110/02/10		1 L	1
18 C	4	0001-0004-821	C-KERAMIK EDPT	22.			110/02/10		L	1
18 C	5	0001-0304.821	C-KERAMIK EDPT	22.		1			1 L	1
18C	6	0001-0004.821		224 20/ 80 4DV		1			I L	1
18 C	7	0001-0004-818		10N 20/100 40V	R10000 2 56.		110/02/10		! L	1
18C	8	0001-0004-821	C-KERAMIK FOPT		R10000 2 56		110/02/10		! L	1
18 C	9	0001-0004.821	C-KERAMIK EDPT		R10000 2 56	1	110/02/10		L	1
18 C	10	0001-0004-818	C-KERAMIK EDET		R10000 2 56	1	110/32/10			1
18 C	11	0001-0041-004	ELKO-TA SINT FEST		R10000 2 56	1	110/02/10	l l	1 1	
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18 GL	1	0001-0018-493	DIDDE ST	1 11 / / / 8	1			i	i [-]	
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186L	3	0001-0018.493	DIODE SI	1 N 4448 DO 35	1	1	ITI	i	! c	L
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18 IC	2	0001-0070-509		SN74 LS 15 7N DIP 16		1	TEXAS	ı	! ! !	Ĺ
1810	3	0000-7529.995		SN74LS156N DIP 16		1	TEXAS	1	! 1	1
181C	1		1	SN74 111N DIP 16		1	TEXAS	!		1
1810	5	0000-7529.995		SN74 111N DIP 16		1	TEXAS	1		l .
1810	- 50	0000-7529.995		SN74 111N DIP 161		1	TEXAS	!	! 21	
1810	6	0001-0067.185		SN74LS 86N DIP 14!		1	TEXAS		17	
		0001-0070-509		SN74LS156N DIP 16			TEXAS	!		
1810	8	0001-0071-265		SN74LS 21N DIP 14		- 1	TEXAS	;	1 11	
1810	' 1	0001-0071-281		SN74LS 32N DIP 14			TEXAS	1	1 15	
181C	10	0001-0071-281		SN74LS 32N DIP 14		- 1	TEXAS	1	i [1]	
181C	11	0001-0067-156		SN74LS 04N DIP 141		- 1	TEXAS	i	1 1 1	
1810	12	0001-0067.169		SN74LS 08N DIP 14			TEXAS	i	1 1	
18IC	13	0001-0067-169		SN74LS 08N DIP 14			TEXAS	i	1 1	
1810	14	0001-0056.837	IC-TTL	SN74LS 74AN DIP 14	ļ		TEXAS	. 1	1 19	
181C	15	0001-0065.695		SN74LS DON DIF 14	1	1	TEXAS	1	1 1 9	
181C	16	0001-0071.935	IC-TTL	SN74LS365AN DIP 16	1		and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th	;		
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18 I C	18	0001-0070-266		SN74LS107AN DIF 141			TEXAS	1	1 14	
181C	19	0000-7541.481	R-MODUL I	9x 22k 1Ux 0H14	TK250	- 6	TEXAS	1	1 14	
18 I C	20	0000-7594.894 1	IC-RELAISTREIBER	IC-24V	1.6.50		018/05/01	!		
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Schaltteilliste/Parts List

SLRIE

0907-8400-138 CPTION BN 907/00-13 AUSF: TEILE-NR SACH-NR BENERNUNG HEZEICHNUNG 1 BEZEICHNUNG 2 BLMLRKUNG WERKNORM SFRIF AF PART NO ITEM NO DESIGNATION MARKINS 1 MARKING 2 QU REF. DESIG NOTE VERSION OOUU-7594.894 IC-RELAISTREIPER 1810 11 C - 2 4 V STS/SAG 18IC 30 0001-0067-156 IC-TTL ISN74LS DAN DIP 14 TEXAS 1810 0001-0065-695 IC-TTL SN74LS DON DIP 14 TEXAS 18IC 0001-0365.585 IC-TTL SN74LS DZN DIP 14 TEXAS 1810 33 0001-0067-156 IC-TTL ISN74LS DAN DIP 14 TEXAS 1810 34 0001-0070.266 IC-TTL ISN74LS107AN DIP 14 TEXAS 18 I C 35 0001-0070-266 L IC-TTL SN 74 L S107AN DIP 14 TEXAS 0001-0070.266 IC-TTL 1810 36 SN74LS1D7AV DIP 14 TEXAS 0000-7555.901 IC-TTL 0001-0067.172 IC-TTL 0001-0070.347 IC-TTL 18 I C 37 SN74L S 3 93 N DIP 14 TEXAS 18 I C 38 SN74LS 30N DIP 14 TEXAS 181C 39 ISN74LS153N DIP 16 TEXAS 18 I C 40 0001-0367-156 IC-TTL ISN74LS DAN DIP 14 1 TEXAS 0001-0070-266 IC-TTL H BIC 41 SN74LS107AV DIP 14 43 TEXAS 181C 0001-0070-266 IC-TTL SN74LS107AN DIP 14 1 TEXAS 0000-7555.901 IC-TTL 181C 44 ISN74LS393N DIP 14 TEXAS 181C 45 0001-0067-172 IC-TTL ISN74LS 30N DIP 14 TEXAS 1810 0001-0070-347 IC-TTL SN74LS153N DIP 16 TEXAS 181C 48 0001-0059-164 IC-TTL SN74 17N DIP 14 TEXAS 0001-0006.861 R-KOHLE 0001-0007.077 R-KOHLE 0001-0006.913 R-KOHLE 18 R 390R 5% 0207 018/03/01 0000000000000 55K 0 207 56 018/03/01 1BR 1 K 5% 0207 55 018/03/01 0001-0007-006 R-KOHLE 1 8 R 5 K 5 5% 0207 56 018/03/01 0001-0307-006 R-KOHLE 1 B R 5% 5K6 0207 55 018/03/01 0001-0007.006 R-KOHLE 5 K 6 5% 0207 56 018/03/01 18R 0001-0006.913 R-KOHLE 1 K 5% 0207 56 018/03/01 18R 0001-0006-858 R-KOHLE 5 % 5 % 330R 0207 56 018/03/01 18 R 0001-0006 . 858 R-KOHLE 33 OR 0207 56 018/03/01 18R 10 0001-0006 . 858 R-KOHLE 330R 5% 0207 56 018/03/01 18R 11 0001-0006.861 R-KOHLE 390R 0207 56 018/03/01 0001-0007.006 R-KOHLE 0001-0007.077 R-KOHLE 18 R 12 5 % 5 % 5 K 6 0207 56 018/03/01 18R 13 22K 0207 56 018/03/01 0001-0007-006 R-KOHLE 18R 14 15 5 K 6 5% 0207 56 018/03/01 18 R 0001-0007-035 R-KOHLE 10K 5% 0207 56 56 018/03/01 18R 16 0001-0007-035 R-KOHLE 10K 5 % 0207 018/03/01 18 R 17 0001-0007-077 R-KOHLE 5% 5% 22K 0207 56 018/03/01 0001-0007-077 R-KOHLE 18R 18 22K 0207 56 018/03/01 0001-0007-077 R-KOHLE 18R 19 22K 5% 0207 56 018/03/01 18R 20 0001-0007.077 R-KOHLE 55 K 0207 56 56 56 018/03/01 0001-0007-077 R-KOHLE 18 R 55 K 5% 5% 0207 018/03/01 18 R 25 0001-0007 -077 R-KOHLE 0207 018/03/01 C 26 27 3001-0006-858 R-KOHLE 18 R 5 % 330R 0207 55 018/03/01 0001-0006 -858 R-KOHLE 18R 330R 5% 56 56 56 0207 1 018/03/01 0001-0006. 858 R-KOHLE 18R 28 330R 5% 0207 018/03/01 0001-0005 . 858 R-KOHLE 18R 29 330P 5% 0207 018/03/61 18 R 30 0001-0006.858 R-KOHLE 330 R 5 % 5 % 0207 55 018/03/01 18 R 31 .0001-0006-858 R-KOHLE 330 R 018/03/01 0207 0001-0006-858 R-KOHLE 184 00000 32 330R

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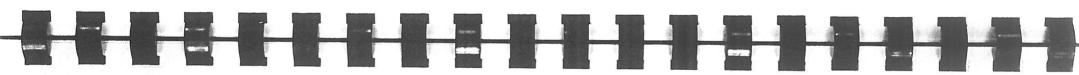
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SCHALTTEILLISTE / PART-LIST

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TEILE	-NR	SACH-NR	BENEMNUNG	Tec 25254	NUME A	-	T			T		
FART		ITEM NO	DESIGNATION	MARVING			HEZEICHNUNG 2		3.1	WERKNORM REF. DESIG	PEMERKUNG	SFRIF A
18R	36	0001-0006-858	P-KOHI F			-				XC1 2 DC3 10	WOTE	I VERSIO
18 R	37	0001-0306-845	B-KOHLE	330R	5 %	0207	1	56	1	018/03/01		
18R	38	0001-0006.803	B-KOMLE	270R	5 %	0207	i	5 5	1	018/03/01		i
BR	39	0001-0006_803	B-KOHLE	120R	5%	0207	i	56	1	018/03/01		i
18R	40	0001-0006.803	R-KOHLE	120R	5 %	0207	1	56	1	018/03/01) i
8 R	41	0001-0006.803	K-KOHLE	120F	5 %	0207	1	56	1	D18/03/01		1
18 R	42	0001-0006.203	R-KOHLE	120R	5%	0207	!	56	1	018/03/01	1	1 !
8 R	43	0001-0006.803	K-KUHLE	120R	5 %	02 07		56	1	018/03/01	1	i i
8 R	44	0001-0006.803	R-KOHLE	120R	5%	0207		56	1	018/03/01		1 1
BR	45	0001-0006.803	K-KOHLE	120R	5 %	0207	i ·			018/03/01	1	1 1
R	46	0001-0006-803	K-KOHLE	120R	5 %	0207	1			018/03/01	1	i i
R	47	0001-0006.803	R-KOHLE	120F	5%	0207	!	56	1	018/03/01	1	1
R R		0001-0006-803	R-KOHLE	1 12 DR	5 %	0207		56	- 1	018/03/01		1
	48	0001-0006-803	R-KOHLE	120R	5 %	0207	1			018/03/01		1 !
R	49	0001-0006-803	K-KOHLE	120R	5%	0207	1			018/03/01		1 !
R R	50	0001-0006-913	R-KOHLE	i 1K	5 %	0207	i		- 1	018/03/01		1 !
	51	0001-0306-942	R-KOHLE	1 1K8	5%	0207	i ·			018/03/01		!
	52	0001-0007-077	R-KOHLE	25K	5%	0207	i			018/03/01		1
	53	0001-0007-077		25K	5%	0207	!			018/03/01	101	1
	54	0001-0006-913	R-KOHLE	1 K	5 %	0207	!	1	- 1	018/03/01		1 1
	55	0001-0006-942	R-KOHLE	1 1 8	5%	0207			-	018/03/01		1
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REL		0000-7594.8231	RELAIS GEPOLT KARTEN	ADD AU	6V 360R		154-L-6V			SDS	1	i i
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REL		0000-7594-823	RELAIS GEPOLT KARTEN	ADD AH	6V 360R	H D	S4-L-6V		- 1	SDS		1 [
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	2	0000-7531.491	TRANS SI PNP DARLING	MPS-A 63	В	TO 92	•			AJCROTOM		
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SCHALTTFILLISTE / FART-LIST

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0907-8400-141 OPTION 907/00-14

AUSF:

TEILE-NR SACH-NR PENETINUNG BEZEICHNUNG 1 BEZEICHNUNG 2 MG WERKNORM BEFERKUNG SERIE AF C PART NO ITEM NO DESIGNATION MARKING 1 MARKING 2 REF. DESIG NOTE VEKSION 38U 0000-3713.006 TF-BUCHSE 00-3713_006/4 00-3713_006/4 2+1 119/01/05 3BU 0000-3713.006 TF-BUCHSE 2 + E M FB 119/01/05 0000-3719-000 MASSEHUCHSE 0000-3719-000 MASSEBUCHSE 3 BU M LF LT 00-3719-00 119/02/06 300 100-3719-00 LF 0000-3719.000 MASSEBUCHSE 0000-3719.000 MASSEBUCHSE 0000-3719.000 MASSEBUCHSE 0000-3719.000 MASSEBUCHSE 0000-3719.000 MASSEBUCHSE 0000-3719.000 MASSEBUCHSE 0000-3719.000 MASSEBUCHSE LT 119/02/06 3 PU MLF 100-3719-00 119/02/06 3PU M LF LT 00-3719.00 117/02/06 360 100-3719-00 LT 119/02/06 3110 00-3719-00 M LF A. T 119/02/06 38U LT 100-3719-00 119/02/06 3 8 0 M LF 00-3719-00 119/02/06 3 BU 12 0000-3719.000 MASSEBUCHSE 4 LF I. T 00-3719-00 119/02/06 0000-3719-000 MASSEBUCHSE 3 BU 13 M LF LT 00-3719-00 119/02/06 30 0000-7500-901 C-KERAMIK EDPT ABGLEICHWERT 56 1 110/02/09 3 C 2 0000-7500-901 C-KERAMIK EDPT ABGLEICHWERT 1 110/02/09 55 0000-7500-901 C-KERAMIK ABGLEICHWERT 0000-7500.901 C-KERAMIK EDPT 0001-0004-106 C-KERAMIK EDPT 3 C ABGLEICHWERT 56 110/02/09 3 C OP25 NP 0 18 63 V 55 113/32/09 3 C 0000-7500.901 C-KERAMIK EDPT ABGLEICHWERT 56 110/02/09 3 C 0000-7500.901 C-KERAMIK EDPT ARGLETCHWERT 56 1 110/02/09 0000-7500.901 C-KERAMIK 3 C ABGLEICHWERT 1 110/02/09 0000-7500-901 C-KERAMIK 0001-0010-093 C-KF MKT ABGLEICHWERT 110/02/09 3 C 100 V 1 U 10% MKT 1813 55 1 110/03/06 3 C 0001-0010-093 C-KF MKT 1 U 10% 100V MKT1813 56 1 110/03/06 3 C 12 0001-0010.093 C-KF MKT 1 U 10% 100 V MKT1813 56 1 110/03/06 0001-0004-821 C-KERAMIK 13 EDPT 22 N 20/ 80 40V R10000 2 1 110/02/10 3 C 0001-0004.821 C-KEPAMIK EDPT 20/ 80 40 V R10000 2 56 110/02/10 30 0001-0004-821 C-KERAMIK EDPT 22N 20/ 80 R10000 2 56 1 110/02/10 3 C 16 0001-0004-821 C-KERAMIK EDPT 55 M 20/80 40 V R 10000 56 1 110/02/10 3 C 3 C 3 C 0001-0004-821 C-KERAMIK 17 EDPT 22N 20/ 80 40V R10000 2 56 1 110/02/10 0001-0004-821 C-KERAMIK 0001-0004-821 C-KERAMIK 0001-0004-821 C-KERAMIK 18 20/ 80 22N IR10000 2 40V 110/02/10 EDPT 5 S N 20/ 80 1 R 10000 2 40 V 56 1 110/02/10 3 C 3 C 3 C 3 C EDPT 55 W 20/ 80 40 V R 1.0000 2 1 110/02/10 1 110/02/10 56 0001-0004-821 C-KERAMIK EDPT 22N 20/ 80 40 V R10000 2 56 0001-0004-821 C-KERAMIK 20/ 80 22N 40 V R10000 2 1 110/02/10 0001-0004-821 C-KERAMIK 0001-0004-818 C-KERAMIK 23 EDPT 2 2 N 20/ 80 40 V IR 10000 2 56 1 110/02/10 EDPT 10N 20/100 40 V R10000 2 56 3 C 3 C 3 C 3 C 1 110/02/10 0001-0004-821 C-KEPAMIK 20/80 EDPT 22N 4 0 V R10000 2 56 1 110/02/10 26 0001-0004-821 C-KERAMIK FDPT 22N 40V R10000 2 5 5 1 110/02/10 27 0000-7500.901 C-KERAMIK ABGLEICHWERT 56 1 110/02/09 1 0000-7500-901 C-KERAMIK 28 FDPT ABGLEICHWERT 56 1 113/02/09 3 C 0000-7500.901 C-KERAMIK 0000-7500.901 C-KERAMIK 29 EDFT ABGLEICHWERT 1 113/32/09 56 I I L 30 EDPT ABGLEICHWERT 56 1 110/02/09 3 C 31 0001-0004-821 C-KERAMIK EDPT 22N 20/80 40V R10000 2 56 1 110/02/10 3 GL 0001-0018.493 PIODE SI 11 N 4448 00 35 1 111 0 0 0 0 0001-0018-493 DIODE SI 0001-0018-493 DIODE SI 3 GL 1 N 4448 35 DO 1 111 3GL 1 N 4448 DO 351 1 111 0001-0018-493 DIODE SI 3GL 11 N 4448 35 00 1 111 11 N 4448 3GL 0001-0018-493 DIODE SI 00 35 1 111 0001-0018-493 DIODE SI 3GL 17 N 4448 DO 351

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SERIE 0907-8400-141 OPIION 907/00-14

AUSF:

TEILE PART		SACH-NR ITEM NO	BENETINUNG DESIGNATION	BEZEICHNUNG 1 MARKING 1		BEZEICHNUNG Z MARKING Z	M G Q U		BEMFRKUNG NOTE	SENIE AF	
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3REL 1	0000-7568-176	RELAIS GEPOLT KARTEN!	400 AU 12V 720R		0.4	1			! ! !
3REL 2	10000-7568-176	RELAIS GEFOLT KARTEN	4.00 AU 124 7205		S4-12V S4-12V		SDS		i i l
3REL 3	10000-7568-1761	RELAIS GEPOLT KARTENI	400 AU 124 7200		S4-12V		SDS		i !
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JKEL J	3000-7568-176	RELAIS GEPOLT KARTEN	400 AU 12V 720R		S4-12V		SDS		
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16EU 1	0000-7567.552	D-STECKVERB_(M) ABGEW	25 2 2 7742 0	1		1		i	1
	1	1	25 2 2,77x2,84	S1 AU	164802-1	1	119/05/16	!	1 1
16C 1	0001-0004-821	C-KERAMIK EDPT	22N 20/80 4	40V !	R10000 2			i	i 1
16C 2	0001-0004-821	C-KERAMIK EDPT	20.		R10000 2		110/02/10	1	! 1
160 4	0001-0004-821	C-KERAMIK EDPT			R10000 2	56 1	1	!	
16C 5	0001-0004-821	C-KERAMIK EDPT			R 10000 2	-	110/02/10	1	1 1
6 201	0001-0010.145	C-KERAMIK EDPT			R10000 2	56 1		1	
16C 7	0001-0010-145	C-KF MKT	2		4KT1813	56 1	110/03/06	i	1 12
	1		202 102 10	00V	4KT1813	56 1	110/03/06	j	! 1
16GL 1	0000-7536-881	LED GRUEN 3MM	D 37 1 P	D 77				!	-
66L 2	0000-7536.881	LED GRUEN 3MM		0 77		1	114/03/03		
6GL 4	0000-7536.881	LED GRUEN 3MM	D 37 1 P	D 771			114/03/03	j	i L
6GL 5	0000-7536.881			D 77!			114/03/03	1	1
6GL 6	0000-7536-881			D 77		1 1		!	
6GL 7	0000-7536.881	FD GRIEN 3MM	0 37 I P			1 11	114/03/03	-	
6GL 8	0000-7536.881	LED GRUEN 3MM L					114/03/03	i	
6GL 9	0000-7536.881 L	ED GRUEN 3MM				1	114/03/03	į	1 1
6GL 10	0000-7535.881	ED GRUEN 3MM		-		1	114/03/03	!	! [
6GL 11	0000-7536.881 L	ED GRUEN 3MM				1	114/03/03		
6GL 12	0000-7536-881 L	ED GRUEN 3MM	D 37 I PI			1	114/03/03	i	i L
6GL 14	0000-7536-878 L	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	D 30 11 PI			1	114/03/03	j	! L
6 GL 15	0000-7536.878 L	F		D 77			114/03/03	1	
	0000-7536-878 L	FR DOY YOU					114/03/03	[1
6GL 17	0000-7536.878 L	ED POT 3MM	1 11 11		,	1 1	114/03/03	!	1
6GL 18	,0000-7536-878 L	ED ROT 3MM				1	114/03/03	i	1 11
	Sach-Nr. angeben!		D 30 II PC	771		1	114/03/03	İ	i lil
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4+6 - EDV -

S C H A L T T E I L L I S T E / P A R T - L I S T

BLATT 5 12.07.82

Schaltteilliste/Parts List

SEPIE 0907-8400-141 CPTION 907/00-14 AUSF:

				T					-		-	
0.00	E-NR	SACH-NR	3 E NE NNUNG	BEZFICHNU	146 1		BEZEICHNUNG	2	MG	WERKNORM	BEMERKUNG	SERIE AF
PAR	6.0	I TEM NO	DESIGNATION	MARKING 1			MAPKING 2		QU	THE PERSON NAMED IN COLUMN TO	NOTE	VERSION
							i .				1	1 VERSION
3 R	125	0001-0007-271		820r	5%	0207	1	56	1	018/03/01		
3 R	126	0001-0003.084		137K	1 2	0207	TK 50	5.5	1	018/04/01		1 1
3 R	127	0001-0002.700		44K2	12	0207	TK 50	56	1	018/04/01		i 1
3 R	129	0001-0007.093	R-KOHLE	33K	5 %	0207	i	56	1	018/03/01		i i i
3 R	130	0001-0007-284	R-KOPLE	1 M	5 %	0207	1	56	1	018/03/01	100	1 1 1
3 R	132	0001-0006-971	R-KOHLE	3 K 3	5%	0207	1	5.5	1	018/03/01	1	1 ! ! !
3 P	133	0001-0006-971		3 K 3	5 %	0207	1	56	1	018/03/01	1	1 1 1
3 R	134	0001-0007-271		850K	5 %	0207	!	56	1	018/03/01	1	i
3 R	135	0001-0003-110	R-METALL	150K	1 %	0207	TK 50	56	1	018/34/31	i	1 11
3 R	136	0001-0002.700	R-METALL	44K2	1%	0207	TK 50	56	- 1	018/04/01		i i 1:
3 R	139	0001-0006.971	K-KOHLE	3 K T	5 X	0207	1	5 6	1	018/03/01		i i []
3 R	140	0001-0006-971	R-KOHLE	3 K 3	5%	0207	1	56	4	018/03/01		i
3 R	141	0001-0007-271	R-KOHLE	820K	5%	0207	1	56	4			1 1 19
3R	142	0001-0003-084		137K	1 %	0207	TK 5C	56	4	018/03/01		1 1
3 R	143	0001-0002.700		44K2	12	Allert St. Co.	TK 50		-	018/04/01		1
3 R	145	0001-0007.093		33K	5%	0207	1	5 6 5 6	1	018/04/01		1 !!!
3 K	146		R-KOHLE	1 M	5%	0207	l I	1011 7011	1	018/03/01		1 ! 0
3 R	148	0001-0006-971		3 K 3	5%	0207	i	56	1	018/03/01		! ! !
3 R	149	0001-0006.971		3 K 3	5 %	0207		56	1	018/03/01		1 1
3 R	150		R-KOHLE !	850K	5%	0207		56	1	018/03/01		! ! !
3 R	151	0001-0003-110		150×	1%		TK 50	56	1	018/03/01		! ! !
3R	152	0001-0002.700		44×2	1 %		TK 50	56	1	018/04/01		1 1
3 R	155	0001-0006.971		3×3	5 %	0207	1 1 5 0	56	1	018/04/01		1 1
3 R	156		R-KOHLF	3 K 3	5%	0207		5.5	1	018/03/01		1 1
3 R	157		R-KOHLE	820K	5%	0207		56	1	018/03/01		1 1
3R	158		R-METALL !	137K	1%	0207	TK 50	56	1	018/03/01		!!!!
3 R	159		R-METALL	44K2	12	0207	TK 50	56	1	013/04/01		1
3R	161	0001-0007-093		33K	5%	0207	1	56	1	018/04/01		! ! !
3R	162	0001-0007.284		1 4	5%	0207		56	1	018/03/01		! 1 9
3 R	164	0001-0006.971		3K3	5%	0207		56	7	018/03/01		1 10
3 R	165	0001-0006-971		3 K 3	5%	0207		56	1	018/03/01		!!!!
3 R	166	.0001-0007.271		820K	5 X	0207		56	1	018/03/01		
3 R	167	0001-0003-110		150K	12	0207	TV 50	56	1	018/03/01		
3R	168	0001-0002.700		44K2	12	0207	TK 50 TK 50	56	7	018/04/01		1 1 1
3 R	171	0001-0006.971		3 K 3	5%		14 20	56	1	018/04/01		1 1
3R	172	0001-0006-971		3 K 3	5%	02 07		5.6	1	018/03/01		1 1 0
3R	173	0001-0007.271		850k	5 %	0207		56	1	018/03/01		1 1 0
3 R	174	0001-0003-084	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	137K	1%	0207	TV EO	56	- 1	018/03/01		1 ! 0
3 R	175	0001-0002.700		44K2	1%		TK 50	5.5	. 1	018/04/01		
3 R	177	0001-0007.093		33K	5%		TK 50	56		018/04/01		
3 R	178	0001-0007.284		1 H	5%	0207		56		018/03/01		C
3 R	180		R-KOHLE	3 × 3	5%	0207		56		018/03/01		
3 R	181	0001-0006.971		3 × 3	5%	0207		56		018/03/01		, c
3 R	182	0001-0007-271		850k		02 07		56	- 1	018/03/01		1 0
3 R	183	0001-0003-110		150K	5%	0207	7 4 50	5.6	- 1	018/03/01		1 1 0
3 R	184	0001-0002.700			12	Annual Control of	TK 50	56	- 1	018/04/01		! L
3 R	187	0001-0005.700		44K2	1%	0207	Th 50	56		018/04/01		L
3 R	188	0001-0006.971		3 K 3	5%	0207		56		018/03/01		C
3 F	189	0001-0007.271	1	3 K 3	5%	0207		. 56		018/03/01		1 c
3 R	190	0001-0007-271		820K	5 %	0207	- W - C	56		018/03/01		! c
3 R	191	0001-0002.700		137K	1 %	Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Compan	TK 50	5.5		018/04/01		L
r	171	0001 0002 1001	RILLIALL	46KZ	1 %	0207 1	TK 50	56	1	018/04/01		1 1 1

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SERIE 0907-8400-141 OFTION 937/00-14 AUSF:

TEILE-NE	SACH-NR	BENERRUNG	BEZEICHN	UNG 1		D17676000005			T		_	
PART NO	ITEM NO	DISIGNATION	MARKING			MARKING 2		46	MERKNORM	BEMERKUNG	SERIF AF	C
3R 193	0001-0007-093	R-KCPLF	ļ					u ()	REF.DESIG	NOTE	VERSION	
3P 194	0001-0007.284	R-KOHLE	33k	5%	0207	1	56	1	018/03/01		1	+
3R 196	0001-0006-971	R-KOHLE	3 K3	5 % 5%	0207	i	56	1			! !	C
3R 197	10001-0006-971	R-KOHLE	3 K 3	5%	0207	!	56	1	018/03/01		! !	C
3F 198	0001-0007-271	R-KUHLE	820K	5%	0207 0207	1	56	1	018/03/01		1 1	C
3R 200	0001-0003.110	R-METALL	1 150K	1 %	0207	TK 50	56	1			1 !	C
3R 203	0001-0002.700	R-METALL	44KZ	12	0207	TK 50	5.5		018/04/01		1	L
3P 204	0001-0006-971	K-KOKTE	3 K 3	5 %	0207	1 20	56 55	1	018/04/01		! !	L
3R 205	0001-0047-271	B-KORLF	3 k 3	5 %	0207	i	56		018/03/01		1 1	C
3R 206	0001-0003.084	R-METALL	823k	5%	0207		56		018/03/01		!!!	C
3H 207	0001-0002.700	R-METALL	137K	1 %	0207	TK 50	56		018/04/01			C
38 209	0001-0007-093	R-KOHIF	44K2	1%	0207	TK 50	56		018/04/01		i i	L
3F 210	0001-0007.284	R-KOHLE	14	5 % 5 %	0207	i	56		018/03/01		!!!	L
3R 211	0001-0006.887	R-KOHLE	560R	5 % 5 %	0207	1	56		018/03/01			0
705.	1	ľ		J.,	0207	1	56	1	018/03/01		!!!	c
3REL 1	0000-7568-176	RELAIS GEPOLT KARTEN	400 AU	12V 720R	нр	15/-434	1	- 1			! ! !	-
3REL 2 3REL 3	0000-7568-176	RELAIS GEPOLT MADTEN!	100	2V 720R	HD	S4-12V S4-12V	- 1		SDS		i i l	
SPEL 4	0000-1300-116	RELATS GEPOLT MADTEN	100 ***	2 V 72 OR	HD	S4-12V	1		SDS		1 1	L
SREL 5	3000-7568 176	RELAIS GEPOLT KARTEN	400 AU 1	12V 720R	HD	154-12V	1		SDS		1	L
	5.50 1708 2176	RELAIS GEPOLT KARTEN	400 AU 1	2 V 72 OR	HD	154-12V			SDS		!!!	L
		1				1		1	SDS			L
1680 1	0000-7567.552	D-STECKVERB_(M)ABGFW	25 2			!	1	- 1			i	- 1
		1	23 2	2,77X2,8	4 S1 AU	164802-1	1	1	119/05/16		1.	.
16C 1	0001-0304-821	C-KERAMIK EDPT	2 2 N	20/ 80	(0)		1		, 657.16		! !	L
100 2	0001-0004-8211	C-KERAMIK FART	-	20/ 80	4 D V	R10000 2	56	1	110/02/10	ľ	1 1	.
16C 3	0001-0004-821	C-KERAMIK EDPT		20/ 80	40 V	R10000 2 R10000 2	56	1 1	110/02/10	i	!	
6C 5	0001-0004-821 0001-0004-821	C-KERAMIK EDPT	2 2 N	20/80		IR 10000 2	614		110/02/10	ĺ		
	0001-0010-145	C-KERAMIK EDPT		20/ 80		R10000 2			10/02/10	J	i	
6C 7 .	0001-0010.145	C-KE MYT	202			MKT1813			10/02/10	!	! [1	-
ŀ			5 N 5	10%	100¥	MKT1813			10/03/06	;	1 1	- 1
6GL 1	0000-7536-881	LED GRUEN 3MM	D 37 I					1	10,03,00	i	i 1	-
06L 2	0000-7536.881	LED GRIFN THE			PD 77			1 1	14/03/03	1	1 1.	1
0 CL 3	0000-7536.881	LED GRUEN 3MM	-		PD 77				14/03/03	!	! !!	-
061 4	0000-7536.88111	LED GRUEN THE I.			PD 77			1 1	14/03/03			1
6GL 5	0000-7536.881	LED GRUEN 3MM			PD 77			1 1	14/03/03	i	1 11	
	0000-7536-881	LED GRUEN 3MM	D 37 I		PD 77		1 "	1 1	14/03/03	i	1 1	
6GL 8	0000-7536-881	LED GRUEN 3PM	D 37 I		PD 77		1 :		14/03/03	i	! [
	0000-7536.881 L	ED COUCH TOO			PD 77		1		14/03/03	į.	! [
	0000-7535.881 L	ED GRUEN SMM			PD 771		4		14/03/03		! L	
	0000-7536.881 L	F			PD 77				14/03/03	:	L	
OCT 15 (J000-7536_881 L	ED GRUEN SMM			FD 77				14/03/03	i	1 L	
OCT 12 (JUUU-7536.878FL	ED ROT 3MM			PD 771				14/03/03	!	1 1	1
OGL 14 (0000-7536.878 L	ED ROT 3MM			PD 77				14/03/03	!	1 1	
DGL 15 1	0000-7536 878 1	ED ROT 3MM			PD 77				14/03/03	1		
Der 19 (1000-7536.878 L	ED ROT 3MM			PD 771		1	1 ' '	14/03/03		! [
	0000-7536-878 L	ED POT 3MM			PD 77		1	11	6/03/03		! [
700 10 10	1000-7536-878 L	ED FOT 3MM	30 11		PD 77				4/03/03	i		
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SCHALTTEILLISTE / PART-LIST

BLATT 7 12-07-82

Schaltteilliste/Parts List

SERIE 0907-8400.141 OPTION 907/00.14 AUSF:

TEILE-NR PART NO	SACH-NR ITEM NO	BENENNUNG DESIGNATION	HEZEICHNUNG 1 MARKING 1	MEZFICHNUNG ?	MS QU	WERKNORM REF.DESIG	BEMERKUNG NOTE	SERIE AF	С
166L 19 16GL 20 16GL 21 16GL 22 16GL 23 16GL 24	0000-7536.878 0000-7536.878 0000-7536.878 0000-7536.878 0000-7536.878 0000-7536.878	LED ROT 3MM LED ROT 3MM LED ROT 3MM LED ROT 3MM	Lb 30 II		1 1 1 1	114/03/03 114/03/03 114/03/03 114/03/03 114/03/03 114/03/03			L L L
16R 1 16R 2	0001-0005-202 0001-0005-202		330R 5% 0411 330R 5% 0411	5 6 5 6		018/03/01 018/03/01			L
16ST 1	0000-7546.839	D-STECKVERB.(V)ABGEW	25 2 2,77x2,84 \$1 AU	164494-1	1	119/05/16		i	L
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SCHALITEILLISTE / PART-LIST

Schaltteilliste/Parts List

SERIE C 0907-8400-154 OPTION 907/00-15

AUSF:

TETLE-NP PEZEICHVUNG 1 MARKING 1 SACH-NR BEZEICHNUNG 2 BENENNUNC MG WIRKNORM HEMIRKUNG SERIE AF C DESIGNATION MARKING 2 QU REF. DESIG 0001-0004-083 C-KERAMIK 0001-0004-711 C-KERAMIK OP25 NP D 110/02/09 63V 50 15C EDPT R 2000 2 1 N5 10% 63 V 110/02/10 15C 0001-0004-083 C-KERAMIK EDFT INP D 4 P 7 GP25 63V 18 56 110/02/09 15C 0001-0004.009 C-KERAMIK EDPT 2P2 OP 25 63 V 1 B 56 1 110/02/09 115C 0001-0004.711 C-KERAMIK 0001-0004.009 C-KERAMIK EDPT 1 N5 10% 63 V LE 5000 5 1 113/32/10 56 15C INP O EDPT 2P2 065 63 V 1 110/02/09 55 15 C 0001-0004-083 C-KERAMIK NF 0 11 1 110/02/09 [CFT 4 P 7 0525 63 V 0001-0004.711 C-KERAMIK 15 C F DF T 1N5 10% 63V 56 110/02/10 15 C 0001-0004-083 C-KERAMIK F DF T 4P7 OP25 INP D 63 V 1 113/32/09 18 56 15 C 10 0001-0004.083 C-KERAMIK EDFT 407 INP D OP25 63 V 18 56 110/02/09 0001-0004 - 711 C-KERAMIK 15 C 11 EDPT 1 N5 10% 18 5000 S 63 V 1 113/32/10 56 0001-0004-083 C-KERAMIK 15C 12 EDFT 4 P 7 OP25 63 V NE O 18 56 110/02/09 15C 0001-0004 . 083 C-KERAMIK 13 EDFT 4P7 OP25 63V NP O 18 56 1 110/02/09 0001-0004.711 C-KERAMIK EDPT 1 N5 R 2000 2 10% 63 V 56 110/02/10 15 C 15 C 0001-0004-083 C-KERAMIK EDFT 0P25 15 4P7 INP C 63V 18 56 1 110/02/09 0001-0004.083 C-KERAMIK 16 EDPT 6 P 7 0P25 INP D 110/02/09 1 B 56 0001-0004.711 C-KERAMIK EDPT 1 N5 10% 63 V K 5000 5 56 1 113/02/10 15 C 0001-0004-083 C-KERAMIK EDFT 4P7 OP 2 5 NF D 63 V 1 B 56 110/02/09 15C 2 C 0001-0004-698 C-KERAMIK EDPT 1 N R 2000 2 10% 63V 56 1 113/32/10 0000-7592-498 C-KF KP 15 C 21 473P KF1835 63V 56 ROEDERST -0001-0004-588 C-KERAMIK 15C 22 FDPT 150P 2 % 63 V IN 750 13 55 1 110/02/09 L 0001-0004.384 C-KERAMIK 23 EDPT 47P 2% INF D 110/02/09 56 0001-0004-041 C-KERAMIK EDPT 3 P 3 113/32/09 0P25 63 V NP D 18 15 C 15 C 0001-0004.041 C-KERAMIK EDPT 3 P 3 INP O 0P25 63V 18 56 110/02/09 30 0001-0004-698 C-KERAMIK R 2000 2 1 N 10% 63V 110/02/10 56 15 C 0000-7592-498 C-KF KP 31 470P 5% 63 V KP1835 56 1 ROEDERST. 0001-0004.588 C-KERAMIK 15C N 750 FOPT 150P 2 % 63 ¥ 18 110/02/09 56 15C 33 0001-0004.384 C-KERAMIK EDPT 47P 22 63 V 1 B 56 110/02/09 0001-0004.041 C-KERAMIK 15 C 34 EDPT 0P25 3 P 3 INP 0 63 V 1B 56 1 113/32/09 15 C 0001-0004-041 C-KERAMIK 35 EDFT 3P3 0 0 2 5 63 V INP D 18 56 1 110/02/09 15C 0001-0004-821 C-KERAMIK 36 20/ 80 EDPT 22N 4 D V IR10000 2 110/32/10 56 15C 37 0001-0004-821 C-KERAMIK EDPT 22N 1R10000 2 40V 56 1 110/02/10 40 15C 0001-0004-698 C-KERAMIK 63V F .2000 2 55 1 110/02/10 15 C 0000-7592.498 C-KF KF 470P 5% 63V KF1835 56 1 ROEDERST. 0001-0004-588 C-KERAMIK 15C 42 EDPT 150P 2% 63 V N 750 18 55 113/02/09 0001-0004.384 C-KERAMIK 0001-0004.041 C-KERAMIK EDFT NP 0 47P 1 110/02/09 2% 63 V 18 56 15C 44 EDPT 3P3 0P25 63V 18 56 0001-0004-041 C-KERAMIK 15C 45 EDPT 3 P3 0P25 NP 0 63 V 1 B 56 110/02/09 0001-0010-093 C-KF MKT 15C 50 10 10% 100 V MKT1813 56 110/03/06 0001-0010-093 C-KF MKT 0001-0010-093 C-KF MKT 15 C 1 110/03/06 MKT1813 1 1 10% 100 V 15C 52 10 10% 100 V IMKT1813 56 15C 53 0001-0004-821 C-KERAMIK EDPT 22N 20/ 80 IR10000 2 40 V 56 1 110/02/10 0001-0004.821 C-KERAMIK 0001-0004.821 C-KERAMIK 15 C 54 20/80 EDPT 22 N R10000 2 40 V 55 1 113/02/10 15C 55 FDFT 22 N 201 80 R10000 2 1 110/02/10 40 V 56 0001-0304.821 C-FEFAMIK 15C 56 EDPT 22N 20/ 80 40 V R10000 2 55 110/02/10 15 C 0001-0004.818 C-KERAMIK 60 EC PT 10N 20/100 40 V R10000 2 110/02/10 15C 61 0001-0004-818 C-KERAMIK EDPT 20/100 1 3 N R10000 2 1 110/02/10 40 V 15C 62 0001-0004-818 C-KERAMIK EDPT 104 20/100 40 V 1 110/02/10 1 110/02/10 IR 10000 2 56 15C 0001-0004-818 C-KERAMIK 20/100 63 EDPT 1 0 N 40 V R10000 2 56 15 C 0001-0004-818 C-KERAMIK 64 R10000 2 EDPT 10N 20/100 40 V 1 110/02/10 1 110/02/10 56 0001-0004.818 C-KEPAMIK F DF T 194 20/100 40 V 1810000 2

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PLATT 2 12.07.84

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SERIE C 0907-8400-154 OPTION 907/00-15

AUSF:

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TEI	LE-N	R SACH-NE	BENENHUNG		0.5.5.								
PAR	T NO		DESIGNATIO) N	BEZEICH			HEZEICHNUNG 2		MC	Tu punci.		
				/ N	MARKING	1		MARKING 2		FIG	WIRKNORM	BEMERKUNG	SERIF AF C
115 C	6	6 0001-0004.	818 C-KERAMIK	I N C 7	1					QU	PEF _DESIG	NOTE	VERSION
15 C	6	/ 10001-0004	818 C-KERAMIK	EDFT EDPT	10N	20/100	4 OV	R10000 2	56	1	446		
15 C		c 10001-0004.	B18 C-KERAMIK	EDPT	10N	20/100	4 D V	R 10000 2	56	1	110/02/10		1 11
15 C	_	9 10001-0004_	B18 C-K FRAMTE	ECPT	104	20/100	40 V	IR10000 2	56	1	113/02/10		1 1 1
15 C		0 [0001-0004.	B18 C-KERAMIK	EDDI	1 10N	20/100	40 V	IR 10000 2	56		110/02/10		i 1 [L]
15 C		1 0001-0304.	318 C-KERAMIK	EDPT	NC1	20/100	4 O V	R10000 2	5.5		110/02/10		1 ! []
15 C	7.	2 0001-0004.	18 C-KEPAMIK	EDPT	10N	20/100	4 O V	R10000 2	56	1			1
		1		CDIT	10N	20/100	40 V	R10000 2	56		110/02/10		!
1561		1 0001-0018.	93 01001 51	1	1 4 ///						110/02/10		!
1561		2 0001-0018.4	93 DIODE ST		1 N 4448		00 35			1	177		! ! ! !
15 GI		5 0001-0018 _4	93 DIODE ST		1 N 4448		00 35			1	111		
15 GI		4 0001-0018-4	93 DIODE ST		1 N 4448		00 35	1		11	ITT		C
1561		0001-0018.0	37 DICOF ST		9AY 72		00 35	ì		1 - 1	ITT		
15GL		0 10001-0018.0	37 DIOCE ST		BAY 72		00 35	i		11	FSC		1 1
15 GL		10001-0018-4	93 01006 61		1 N 4448		00 35	[1 1	FSC		1
15 GL		10001-0018.4	93 DIODE ST		1 N 4448		DO 35	!		1 1	111		1 1 1
15 GL		1 10001-0018.4	93 DIODE ST		1 N 444B		DO 35			1 1	itt		1
156L			37 DIODE SI		BAY 72		00 35				ITT		C
15GL			37 DIODE SI		BAY 72		DO 35			1	FSC		!!
15 GL			37 DIODE SI		BAY 72		00 35			1 1	FSC		
15 GL			37 DIODE SI	1	BAY 72		DO 35			1	FSC		
15 GL			DIODE SI		N 4448		DO 351			1	FSC		
15 GL	21		3 DIODE SI		N 4448		00 35			1	177		
15GL	22	0001-0018.0	DIODE SI		AY 72		00 35			1	ITT		C
15GL	23	0001-0018-0 0001-0018-0	DIODE SI	! e	AY 72		DO 35!			1	FSC		
156L	24	0001-0018.0	DIODE SI	18	AY 72		DO 35				FSC	1	1 [1]
15 GL	25	0001-0018.49	ST DIODE SI	! 8	AY 72		00 35			1 1		,	
15GL	26	0001-0018-49	3 DIODE SI		N 4448		00 35				F S C		1 11
15GL	29	0001-0018-49	3 DIODE SI		N 444B		00 351			1 1		i	
156L	30	0001-0018-49	3 DIODE SI	!1	N 4448		00 351		1		171	i i	
15GL	31	0001-0018.03	7 DIDDE ST		N 4448		DO 351				TT	1	1 1
15 GL	32	0001-0018.03	7 DIODE ST	4	AY 72		00 35				77	1	1 0
15GL	33	0001-0018-03	7 DIODE SI		A Y 72		00 35!				SC	!	!
15GL	34	0001-0018-03	7 DIODE ST		AY 72		00 35		1		SC	1	
15GL	35	0001-0018-49	3 DIODE ST	1.0	AY 72		00 35		1		SC	1	
15GL	36	0001-0018.49	3 DIODE ST		N 4448		00 351		1	- 1	S C	i	i L
156L	37	10001-0018-49	3 DIODE ST		N 4448		DO 35			- 1	TT	1	i c
156L	40	0001-0018-49	B DIODE ST		N 4448		00 35		1	- 1	TT	1	1 0
15 GL	41	0001-0018-49	DIODE ST		N 4448		00 35		1	1 1	A 67	!	! c
15 GL	42	0001-0018-03	DIODE ST		Y 72		00 351		1	1 1		!	, C
15 GL	43	0001-0018.03	DIODE SI		Y 72		00 351		1	1 F		1	C
15GL	44	0001-0018_49	DIODE ST		N 4448		0 35			1 F		1	
15 G L	45	0001-0018-037	DIODE SI		Y 72		0 35		1	1 1	_	i	
15GL	46	0001-0018-037	DIODE SI		Y 72		0 35			1 FS		ĵ	C
15 GL	48	0001-0018-493	DIODE 21		N 444R				1	1 FS		I	1 1
		0001-0018-493	DIODE SI		N 4448		0 35		1	1 11		1	
	50	0001-0018-493	DIODE SI		N 4448		0 351			1 11		!	C
	-	0001-0018-493	DIODE SI		N 4448		0 35!		(A)	1 11	· ·	į	C
	52	0001-0018-493	DIODE 21		N 4448	0				1 11	T	!	i c
		0001-0018-037	DIDDE SI		Y 72	D	1			1 17	T	1	
Bei Best	ellung S	Sach-Nr angeben!					0 001		1	1 FS	c	1	C
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SCHALTIFILLISTE / PARI-LIST

Schaltteilliste/Parts List

SERIE C 0907-8460.154 OPTION 907/00-15

AUSF:

TEILE-NR SACH-NE BENERRUNG BEZEICHNUNG 1 BEZEICHLUNG 2 WEEKKYDEN SERIE AF PART NO BEMERCUNG ITEM NO DESIGNATION MARCING 1 MARKING 2 REF.DESIG VERSION 0001-0018.037 15 GL DIODE SI BAY 72 35 00 156L FSC 54 0001-0018-493 DIODE SI 1 N 444P BAY 72 BAY 72 DO 1 1TT 1 FSC 1 FSC 0001-0018.037 DIODE SI 0001-0018.037 DIODE SI 15 GL 55 DO 15GL 56 00 351 0001-0018.493 DIODE SI 0001-0018.493 DIODE SI 15 GL 00 351 15GL 58 ITT 1 N 4448 351 0001-0018.493 DIODE SI 0001-0018.493 DIODE SI 0001-0018.493 DIODE SI DO 15CL 59 ITT 1 4 4448 00 15GL 60 ITT 11 N 444P DO 35 15GL 61 ITT 1 N 4448 00 351 0001-0018.037 DIODE SI 0001-0018.037 DIODE SI 15GL ITT BAY 77 351 351 0.0 15GL 63 FSC BAY 72 00 15GL 64 0001-0018.037 DIODE SI 0001-0018.037 DIODE SI 0001-0018.493 DIODE SI 0001-0018.493 DIODE SI 0001-0018.493 DIODE SI FSC BAY 72 35 DO 15GL 65 FSC BAY 72 35 15 G L FSC 66 1 N 444X 1 N 4448 35₁ 35₁ 35₁ D 0 15 GL ITT 15GL ITT 68 1 1 N 444F DO 0001-0018-493 DICDE SI 0001-0018-493 DICDE SI 0001-0018-493 DICDE SI 0001-0018-493 DICDE SI ITT 15GL 69 1 N 4448 35 156L 70 ITI DO 35 15 GL ITT DO 15GL 72 ITI DO 351 ITT S N74LS 366 AN DIP 16 0001-0069-293 | IC-TTL 0000-7547-265 | IC-KOMPARATOR QUAD 0000-7593-879 | IC-KOMPARATOR 15 I C SN74LS D5N DIP 14 151C TEXAS LM 339 N LM 111 H-883 LM 111 H-883 151C NSC 0000-7593.879 IC-KOMPARATOR
0000-7593.879 IC-KOMPARATOR
0001-0056.837 IC-YTL
0000-7547.265 IC-KOMPARATOR
0001-0069.293 IC-TTL
0001-0067.965 IC-TTL
0001-0065.585 IC-TTL
0001-0069.701 IC-TTL TO 99 NSC 15 I C TO 99 15 I C SN74LS 74AN DIP 14 15 I C TEXAS LM 339 N DIP 14 1510 NSC SN74LS366AN DIP 161 151C TEXAS SN74LS 05V DIP 141 10 TEXAS DIP 14 15 I C MSC 11 SN74LS175N DIP 16 151C TEXAS SN74LS DZN DIP 14 15 I C 13 TEXAS SN74LS366AN DIP 16 TEXAS 151C 14 0001-0066-034 IC-TTL SN74LS 10N 0001-0067-169 IC-TTL | SN74LS 081 0001-0069-293 IC-TTL | SN74LS 051 0000-7567-038 IC-DUAL OPVERST. FET TL 082 CP DIP 14 151C TEXAS 15 SN74LS OBN DIP 14 151C 16 TEXAS SN74LS D5N DIP 14! 151C TEXAS DIP 8 15 I C 18 0001-0071-236 IC-TTL TEXAS DIP 14 SN74LS 09N 0000-7567.038 IC-DUAL OPVERST FET TL 082 CP 0001-0059.164 IC-TTL SN74 174 TEXAS 151C 19 DIP 8 TEXAS 15 I C 20 | SN74 17N | SN74 26N DIP 14 1510 0001-0015-153 IC-TTL TEXAS 21 DIP 141 0000-7567-038 IC-DUAL OPVERST. FET TL 092 CP 1516 25 TEXAS DIP 8 15 I C 23 0001-0071.485 IC-TTL TEXAS SN74LS 264 DIF 14 TEXAS 151C 24 0001-0067-156 IC-TTL SN74LS 04N DIP 14 TEXAS 0001-0005.913 R-KOHLE 0001-0006.955 R-KCHLE 15 R 5% 5% 1 4 0207 018/03/01 15R 56 5×5 0207 56 15R 0001-0007-284 R-KOHLE 018/03/01 5 % 0207 56 0001-0003.343 R-METALL 0001-0002.137 R-METALL 018/03/01 15 R 475K 0207 TK 50 55 1 018/04/01 1 018/04/01 15R 10k TK 50 1% 0207 56

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HIATT 4 12-07-82

SERIE C 0907-8400.154 OPTION 907/00.15 AUSF:

	LF-NF	SACH-NE	BENEHNUNG	District							
PAP	T NO	ITEM NO	DESIGNATION	BEZEICHNUNG 1		BEZEICHNUNG 2		MG	WERKNORM	1	T
-				MARKING 1		MARKING 2			REF. DESIE	HEMERKENE	STRIE AF C
15 R	(5 0001-0001-8	40 R-METALL		and the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of			1	Lucia neste	NUTI	VEPSION
15R	7	0001-0006.9	71 R-KOHLE	4K99 1%	0 2 0 1	TK 50	56	1	D1 : 10:1 10:1		1
15 R	8	0001-0007.2	RA R-KOHL	3×3 5%	0207		56	1	018/04/01		1 1 1
15R	9	0001-0003.3	AT D-METAL	1 M 5 %	0207	1	5.6		018/03/01		1
15 R	10	0001-0001.8	40 R-METALL	1 475K 1X	0207	iTr 50	0.0	1	018/03/01		1
15R	11	0001-0306.9	43 D KOULE	1 4 4 9 9 1 2	0207	TK 50	56		018/04/01	1	1 1 11
15 P	12	0001-0007.0	10 R-KOHLE	! 1KP 5%	0207	1	56		212104101	l	1 111
15 R	15	0001-0306.9	13 R-KUHLE	5KP 5%	0207	Î	56	1	013/03/01		
15R	16	0001-0006-9	TS R-KOHLE	1 k 5%	0207	I	56		018/03/01		1
15R	17	0001-0007.2	SO R-KCHLE	2 < 7 5%	0207	!	56	1	018/03/01		1
15 R	18	0001-0007.2	O4 R-FORLE	1 M 5 %	0207	1	56		018/03/01		1 1 1
15 R	19	0001 00000	43 R-METALL	1 4751 12	02 07	TK 50	56		018/03/01		1
15 R	20		ST R-METALL	1 10K 1%	0207	TK 50	56	1	018/04/01		1 11
15 R	21		W R-METALL	4 K 99 1 X	0207	TK 50	56	1	018/04/01		1 111
15 R	22		A L KOPLE	3×3 5%	0207	1 1 2 0	56	1	018/04/01		! !!!
15R			4 R-KOHLE	1 M 5 X	0207	!	56		018/03/01		1 1 1 - 1
15 R	23		AS R-METALL	475K 1%	0207	ITV F6	56		018/03/01		1
15R	24		O R-METALL	4 699 12		TK 50	56		018/04/01		1 C
	30	0001-0006.91	3 R-KOHLE	1 K 5%	0207	TK 50	56		018/04/01		i i r
15R	31		5 R-KOHLE	2 4 2 5 %	0207	i	5 5		018/03/01		
15 R	32	0001-0007.31	O R-KOHLE	1 MR 5%	0207	İ	56		018/03/01		[3]
15R	33	0000-7519-03	1 R-METALL	2.7	0207	1	5 6		018/03/01		
15R	34	0001-0002-40	9 R-METALL	1		ITK 50	56		018/04/01		C
15R	35	0001-0002-13	7 R-MFTALL			ITK 50	56		018/04/01		
15 R	37	0001-0007-31	O R-KOHLE	1		TK 50	5 6		018/04/01	i	i L
15 R	38	0000-7519-03	1 R-METALL	1	0207	1	56		018/03/01	i	1 L
15R	39	10001-0002-13	7 R-METALL		0207	TK 50	56		018/04/01	1	i c
15 R	45	0001-0006-91	3 R-KOHLE		0207	TK 50	56		018/04/01		!
15R	46	0001-0006-95	5 R-KOPLE	1	0207	i	5.6		018/03/01		
15 R	47	0001-0007-31	O R-KOHLE		0207	I			018/03/01	!	C
15 R	48	1 0000-7519-03	1 R-METALL		0207		56		018/03/01		i c
15R	49	0001-0002-40	9 R-METALA			7K 50	56		018/04/01	!	1 C
15 R	50	1.0001-0005-13	7 R-METALL	1		TK 50	56		18/04/01	1	
15R	52	0001-0007.31	D R-KOHLE	1.77		TK 50	56		18/04/01	1	
15R	53	0000-7519.03	1 R-METALL	1	0207	**	56		118/03/01	i	1 14
15 R	54	0001-0002.13	R-METALL			TK 50	56		18/04/01	i	i c
15R	70	0001-0006-913	R-KOHIE	10K 1X		TK 50	56		18/04/01	1	1 L
15 R	71	0001-0006 . 95	R-KOHLE	1K 5%	0207		56		18/03/01	1	i L
15R	72	0001-0007-284	R-KOHLE	2 K 2 5 X	0207		F .		18/03/01	1	1 0
15R	73	0001-0003_343	R-METALL	1 M 5%	0207				18/03/01		1 0
15R	74	0001-0002.137	R-METALL	475K 1%		TK 50	56		18/04/01	!	
15 R	75	0001-0001-840	R-METALL	10K 1%		TK 50	56		18/04/01	1	!
15R	76	0001-0006-971	R-KOHLE	4K99 1%	0207	TK 50	56	. 1 -	18/04/01	!	!
15P	77	0001-0007.284	R-KOHLE	3 K 3 5 %	0207		56 1	1 -	18/03/01		! L
15 R	78	0001-0003.343	R-METALI	1 4 5%	0207		56 1				C
15R	79	0001-0001-840	R-METALL	475k 1%	0207	TK 50	56 1	1	18/03/01	!	C
15 R	85	0001-0006-913	R-KOHLE	4 4 4 9 9 1 7	0207	TK 50	56 1		18/04/01	i	i L
15 R	86	0001-0006-955	R-KOHLE	1 k 5%	0207		56 1		18/04/01	ì	1 1
15R	87	0001-0007-284	R-KONL L	2 K2 5%	0207		56 1		8/03/01	i	! c
15 R	88	0001-0003.343	R-METALL	1 1 5%	0207 1		F		18/03/01	j	C
15 R	89	0001-0302.137	R-METALL	475K 1%	02 07 11	rk. 50			8/03/01	i	[c]
15P	90	0001-0001.840	R-MCTALL	101 12		rk 50		1	8/34/01	j	
-			THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE P	1 4 4 9 9 1 %		K 50	-		8/04/01	ļ	
Bei Bes When o	tellung S rdering, d	ach-Nr. angeben! quote item No.			,		70 1	101	8/04/01	1.	i L

Bei Bestellung Sach-Nr. angeben! When ordering, quote item No.



#+G - EDV-

SCHALTTFILLISTE / PART-LIST

HLATT 5 12-07-82

Schaltteilliste/Parts List

SERIE C 0907-8400.154 OPTION 907/00.15 AUSF:

TEILE-NR	SACH-NR	BENERNUNG	BEZEICHNU	N 6 1	anyanyan iriban saha kuga aan aapukudus yirab maha	, tet	ZFICHNUNG 2		MG	WERKNORM	BEMILKUNG	STRIE AF
PART NO	ITEM NO	DESIGNATION	MARKING 1				RKING 2		GN		NOTE	VERSION
15R 91	0001-0006.971	R-KOHLE	1 3×3	5%	0207	!		56	1	018/03/01		
15R 92	0001-0007.284		1 M	5 %	0207	1		56	1	018/03/01		i 1
15R 93	0001-0003.343	R-ME TALL	475K	1 %	0207	TK	5 0	56	1	018/04/01		
15R 94	0001-0001-840	R-METALL	4K99	12	0207	ITK	5 C	56	1	018/04/01		1 ! !
15R 100	0001-0006.913	R-KOPLE	1 1 K	5 %	0207	1		56	1	018/03/01	21	1 1
15R 101	0001-0006-955	R-KOHLE	1 5KS	5%	0207	1		56	1	018/03/01		i 1
15R 102	0001-0007.284	R-KCILE	1 1 4	5%	0207	1		56	1	018/03/01	1	1 1
15R 103	0001-0003.343	R-MFTALL	1 475K	1 %	0207	TK	5.0	56	1	018/04/01		1 1
15R 104	0001-0002-137	R-METALL	1 1 3 K	12	0207	TK		56	1	CONTRACTOR OF THE PART OF THE		1 1
15R 105	0001-0001.840		4 K 9 9	1 %	0207	ITK		56	1			1 1 1
15R 106	0001-0006-971		3 K 3	5 %	0207	1		56	1			1 ! !!
15R 107	0001-0007-284	R-KOHLE	1 1 M	5%	0207	l		5.5	1			
15R 108	0001-0003.343		475K	1%	0207	TK	50	56	1			1
15R 109	0001-0001.840		4K99	1%	0207	TK		56	1	018/04/01		1 11
15R 115	0001-0006-913		1 K	5%	0207			56	1	018/03/01		
15R 116	0001-0006.955		1 2K2	5%	0237	ì		. 56	1	018/03/01		1 1 1
15R 117	0001-0007.284	R-KOHLE	1 1 M	5 %	0207	i		56	1	018/03/01		1 1
15R 118	0001-0003.343		475K	1 %	0207	TK	5.0	56.	1	to see "second the product and not		1 1
15R 119	0001-0002-137		1 10K	1 %	0207	Tr		56		018/04/01		1 1 1
15R 120	0001-0001.840	R-METALL	4K99	1 %	0207	TK		56	1	018/04/01		1 1 11
15R 121	0001-0006.971	R-KOHLE	3 K 3	5%	0207	i		56	1	018/03/01		i ! 1i
15R 122	0001-0007.284		1 1 11	5 %	0207	i		56	1	018/03/01		1 11
15R 123	0001-0003.343		475K	1%	0207	ITK	5.0	56	1	018/04/01		
15R 124	0001-0001-840		4K99	1 %	0207	ITK		56	1	018/04/01		! !!!
15R 130	0001-0006.913		1 K	5 %	0207	1		56	1	018/03/01		1 11
15R 131	0001-0006.955		2 K 2	5 %	0207	1		56	1	018/03/01		1 11
15R 132	0001-0007.284		1 1 1 1	5%	0207	!		56	1	018/03/01		i ! i
15R 133	0001-0003.343		1 475K	12	0207	TK	5.0	56	1	018/04/01		i
15R 134	0001-0002-137		10K	1%	0207	TK		56	1	018/04/01		i i
15R 135	0001-0001-840		4499	1%	0207	ITK	_	56	1	018/04/01		i i li
15R 136	0001-0006-971		3 K 3	5 %	0207	1	70	56	1	018/03/01		i
15R 137	.0001-0007.284		! 1 M	5%	0207	İ		56	1	018/03/01		1 1 1
15R 138	0001-0003.343		475K	1%	0207	ITK	50	56	1	018/04/01		!!!!
15R 139	0001-0001.840		4K99	1%	0207	TK		56	1	018/04/01		1 11
15R 145	0001-0006-913		1 K	5%	0207	1	, ,	56	1	018/03/01		1 1 17
15R 146	0001-0006-955		1 2K2	5%	0207	1		56	1	018/03/01		1 1 1
15R 147	0001-0007-284	R-KOHLE	1 14	5 %	0207	í		56	4	018/03/01		1 11
15R 148	0001-0003.343		475K	1 %	0207	TK	5.0	56	1	018/04/01		i i
15R 149	0001-0002-137		10K	12	0207	TK		56	.1	018/04/01		1 1 1
15R 150	0001-0001.840		4 4 9 9	12	0207	TK		56	1	018/04/01		1 1 1
15R 151	0001-0006-971		3 K 3	5%	0207	1		5.6	1	018/03/01		1 1
	0001-0307.284	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	1 1 1	5 %	0207	í		56	1	018/03/01		1 1 6
AND ADDRESS OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE	0001-0003.343		1 475k	1 %	0207	TK	5.0	56	1	018/04/01		1 ! !
	0001-0301.840		4 K 9 9	12	02 07	TK		56	1	018/04/01		1 ! !
15R 160	0001-0006-913		1 1 1 1	5%	0207	1	- 1	56	1	018/03/01		1 1 1
	0001-0006.955		5 K S	5%	0207	i		56	1	018/03/01		! ! !
	0001-0007-284		1 1 1 1	5%	0207	!		56	1	018/03/01		
	0001-0003.343		475K	1%	0207	ITK	5.0	56	1	018/03/01		! ! !;
and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th	0001-0002.137		1 0 K	1 2	0207	ITK		56	1	018/04/01		1 1
	0001-0001.840	500 100 100 100 100 100 100 100 100 100	4K99	1 %	0207	TK		56	1	018/04/01		1 1
			Anna an anna			1 1 1	, ,	J U	,	010/04/01		! ! ! !
	0001-0006-971	R-KCHLE	3 K 3	5%	0207	1		56	1	018/03/01		1 1

Bei Bestellung Sach-Nr angeben! When ordering, quote item No.

HLATT 6 12-07-1

SERIE C 0907-8400-154 OPTION 907/00-15 AUSE:

TEILE-NR	SACH-NR	3 ENF NNUN 6	01.21.5								
PART NO	ITEM NO	DESIGNATION	BEZEICH			HEZEICHNUNG 2	,		WEHKNORM	REMIRKUNG	SERIE AF
15R 167	0001-0007.28	4 P-KOHLE	1 m					Q J	REF. DESIG	NOTE	VERSION
15R 168	0001-0003.34	3 R-METALL	475K	5%	0207	i	56	1	018/03/01		1
15R 169	0001-0001-84	O R-METALL	4 K 9	1 %	02 07	TK 50	5.6	1			1 ! !
15R 175	0001-0006.91	3 R-KOHLF	1 1k	9 1% 5%	0207	1TK 50	56	1			1 1
15R 176	0001-0006.95	5 K-KOHIF	5 × 5	200	0207	!	56	1	018/03/01		! ! !
15R 177	0001-0007-28	4 R-KOHLE	1 1 m	5 %	0207	!	56		018/03/01		! ! !
15R 178	0001-0003.34	3 R-METALL	475k	5%	0207		5 6	1	018/03/01	1	i
15P 179	0001-0002-13	7 R-METALL	1 10k	12	0207	TK 50	56	1	018/04/01	1	1 1
15R 180	10001-0001-840	O R-METALL	4 1 9 9		0207	TK 50	56	1	018/04/01		1 ! !!
15R 181	0001-0006-97	1 R-FCHII	3×3	5%	0207	ITK 5C	5 6	1	018/04/01		i !!!
15R 182	0001-0007-284	4 R-KCHIF	1 1 M	5%	0207		5 6	1	018/03/01		i 1
15R 183	0001-0003.34	3 R-METALL	1 475K	1%	0207	i	5 5		018/03/01		
15R 184	0001-0001-840	D R-METALL	4K99		0207	TK 50	56		018/04/01		1 1
15R 190	0001-0001.895	S R - MF TALL	5 K 6 2		0207	TK 50	56		018/04/01		
15R 191	0001-0007.284	R-KOHLE	1 1 1 1 1	1 % 5 %	0207	TK 50	5 6		018/04/01		1 1
192 J	0001-0001-028	R-METALL	590R	1%	0207		56	1	018/03/01		1 1
194 J	0001-0019-340	R-METALL	6918	12	0207	1TK 50	56	1	015/04/01		1 1
195	0001-0001-277	R-METALL	1 K21		0207	TK 50	56	1	018/04/01		! ! !
ן פעו אכין	0001-0034-286	R-METALL	2489	12	0207	TK 50	5 6		018/04/01		1 1
15K 197	0001-0000.537	R-METALI	100R		0207	TK 50	56		018/04/01		1 1
12K 148	0001-0002,991	R-METALL	100k	1 %	0207	ITK 50	56		018/04/01		
199	0001-0003-068	R-METALL	130K	12	0207	TK 50	56		018/04/01		1 1
15R 200	0001-0000-537	R-METALE	1 3 0 R	12	0207	TK 50	56		018/04/01		1 1
15R 201	0001-0007.284	R-KOHLE	1 M	5%	0207	TK 50	56	1 - 1	018/04/01		1 1 1
15R 202	0001-0001-028	R-METALL	590R	12	0207 0207	174 55	56		018/03/01		! ! !
	0001-0001-895	R-METALL	5K62	1 %	0207	TK 50	56	1	018/04/01		1 c
	0001-0001-895	R-METALL	5 K 6 2	12	0207	TK 50	5.5	1 1	013/04/01		1 1 1
	0001-0007.284	R-KOHLE	1 M	5%	0207	TK 50	56	1	018/04/01		1 1
	0001-0001-028	R-METALL	590R	1%	0207	ITK FO	56		018/03/01		1 2
	0001-0001-277	R-METALL	1 K21	1 %	0207	TK 50	56	1 0	018/04/01		1 1
	0001-0034-286	R-METALL	24R9	1 %	0207	TK 50	56		018/04/01		1 1
	0001-0000.537	R-METALL	100R	1 %		TK 50	56	1 0	18/04/01		1 1
15R 217	0001-0002.991	R-MCTALL	1 100K	1 %	0207	TK. 50	56		18/04/01		!!!!!
	0001-0003-068	R-METALL	130k	1 %	0207	TK 50	56		18/04/01		
	0001-0000-537	R-METALL	100R	1 %		TK 50	56		18/04/01	150	
	0001-0007-284	R-KOHLE	1 1 M	5%	0207	1	56		18/06/01	i	[]
	0001-0001-028	R-METALL	. 590R	12		TK 50	56		18/03/01	i	
	0001-0001-895	R-METALL	5 K 6 2	1 %	0207	TK 50	56	1 0	18/04/01	i	1 11
5R 226 0	0001-0001-895	R-METALL	5 K 6 2	1%		TK 50	56		18/34/01	i	i lil
5R 227 0	0001-0007-284	R-KOHLE	1 1 M	5%	0207	1 30	56		18/04/01	j	1 1
5R 228 0	0001-0001-028	K-METALL	590R	1 %	000	TK 50	56		18/03/01	i	!
	001-0019.340	K-HETALL	69K8	12	-	TK 50	56		18/04/01	ĺ	1 11
5R 230 0	001-0001-277	K-METALL	1 KZ1	1 %		TK 50	56		18/04/01	(! [1]
	001-0034.286	K-METALL	24R9	1 %		TK 50	56	1 0	18/04/01	!	1 11
5R 232 0	001-0000-537	K-METALL	100R	12		TK 50	56		18/04/01	i	1 11
5R 233 0	001-0003-068	R-METALL	100K	1 %		TK 50	56		18/04/01	1	1 11
	001-0003-008	N-METALL	130 K	1 %	000-	Tk 50			18/04/01	i	1 11
SF 235 0	001-0300-337	N-METALL	100R	1 %						i	1 121
	001-0007-284	K-FOHLF	1 4	5 %			-			i	
	001-0001 005	C-METALL	590R	1 %		TA 50				į	
		K-METALL	1 5K62	1 %				1 01	5/04/01	j	1 11
5R 236 D	001-0000.537 001-0007.284 001-0001.028 001-0001.895	R-KOHLF R-MFTALL	1 M 590R	1 % 5 % 1 %	0207 0207 0207	TK 50 TK 50 TK 50	56 56 55	1 01 1 01 1 01	18/04/01 18/04/01 18/03/01 18/04/01 8/04/01		

When ordering, quote Item No.



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SCHALTTEILLISTE / PART-LIST

Schalttellliste/Parts List

SERIF C 0907-8400.154 UPTION 907/GU-15 AUSF:

BLATT 7 12.07.82

	ILE-N		BENENNUNG	BEZEICH	DINC 4						•	
PA	RT NO	ITEM NO	DESIGNATION	MARKING			BEZEICHNUN	G 2	MG	WERKNORM	BEMERKUNG	SERIE AF C
4.5					1		MARKING 2		QU		NOTE	
15			955 R-KOHLE	2 K 2	5%	0207						VERSION
151		0 0001-0003	DOB R-METALL	1 130K	12		lan an	56	1	018/03/01		
15			91 R-METALL	100k	1 %	0207	TK 50	56	1	018/04/01	1	, c
151		2 0001-0001.8	395 R-METALL	5K62		02 07	TK 50	5.5	1		1	1 1
15 F		3 0001-0003_0	168 R-METALL	130K		0207	1TK 50	5.5	1	018/04/01		! !!!
15 F		4 0001-0002.9	91 R-METALL	1 100×	1%	0207	TK 50	5.6	1	018/04/01		!
15 A	-	5 000 1- 0007.2	84 R-KOHLI	1 1 4	1%	0207	TK 50	5 5	1	015/04/01		1 1 1 1
15 F		6 0001-0001_0	28 R-METALL	1 590R	5 %	0207	ì	56	1	018/03/01		1 1
15R		/ [0001-0301.2	77 R-METALL	1 0 0 0	1 %	0207	TK 50	5 6	1	018/04/01		1 0
15 R		8 0001-0034_2	85 R-METALL	1 K 2 1 2 4 R 9	1 %	0207	1 TK 50	56	1	018/04/01		
15R		9 0001-0000.5	37 R-MFTALL	1 100R	12	0207	1 TK 50	56	1 1	018/04/01		
15 R		0001-0002.9	91 R-METALL		1 %	0207	TK 50	5.6	1	018/04/01		
15 R		1 1 0001-0003.0	68 R-METALL	133K	1 %	0207	TK 50	5 5	1 1	018/04/01		
15R	252	0001-0000.5	37 R-METALL	130k	1 %	0207	TK 50	56	1	018/04/01		
15 R	253	10001-0007.2	84 R-KOHLE	100R	1%	0207	TK 50	56	1	018/04/01		1 14
15 R	254	1 0001-0001.0	28 R-MFTALL	1 1 M	5%	0207		56	1	018/03/01		1 1
15R	255	0001-0001-8	95 R-METALL	1 590R	1 %	0207	1 TK 50	. 56	1	018/04/01		1
15 R	260	0001-0001.8	95 R-METALL	2 K 6 S	12	0207	! TK 50	56	1 1	018/04/01		1 1 1
15R	261	0001-0007.2	RA R-KOHLE	2 K 6 S	1 %	0207	TK 50	5.5	1 1			1 1 1
15R	262	0001-0001-0	PR R-METALL	1 4	5%	0207		56		018/04/01		1 ! [L]
15R	263	0001-0019-34	O R-METALL	590R	1 %	0207	TK 50	5 6		018/03/01		1
15 R	264	0001-0001.27	77 R-METALL	59K8	12	0207	1TK 50	56		018/04/01		1
15R	265	0001-0034-28	A D-METALL	1K21	1%	0207	ITK 50	56		018/04/01		
15 R	266	0001-0000-53	7 P-METALL	24R9	1 %	0207	1 TK 50	56		018/04/01		
15 R	267	0001-0002.99	T P-METALL	1 3 0 R	1 %	0207	TK 50	56		018/04/01		
15 R	268	0001-0003-06	R R-METALL	100K	12	0207	TK 50	56		018/04/01		1 1 1
15 R	269	0001-0000.53	7 P-ME TALL	130K	1 %	0207	TK 5C	56	1 11	018/04/01		i L
15R	270	0001-0007.28	A P-KONIE	1 100R	1 %	0207	TK 50	56		018/04/01		1
15R	271	0001-0001.02	8 P-METALL	1 14	5 %	0207		56		018/04/01		1 1
15 R	272	0001-0001.89	5 P-METALL	590R	12	0207	TK 50	56		018/03/01		1 c
15R	273	0001-0003-26	2 Demetal	1 5K62	1 %	0207	TK 50	5 6		018/04/01		1 11
15R	280	-0001-0001-89	5 D-METALL	! 294K	1 %	0207	TK 50	56		018/04/01		1 1 1
15R	281	0001-0007-28	A P-KOULE	5K62	1 %	0207	TK 50	5.5		018/04/01		1 1
15 R	282	0001-0001.02	R D-METAL	1 M	5%	0207	1 1 2 2	56		018/04/01		! ! L
15R	283	0001-0001.27	7 D-MCTALL	59 D R	12	0207	! TK 50	56		018/03/01		c
15 R	284	0001-0034-28	A P-METALL	1 K21	1 %	02 07	TK 50	56		018/04/01		
15 R	285	0001-0000.53	7 P-MCTALL	1 24R9	1 %	0207	TK 50	56		018/04/01		
15R	286	0001-0002-99	1 P-METALL	100R	12	0207	TK 50	56		018/04/01	i	1 1
15 R	287	0001-0003-06	R-METALL	100K	12	0207	TK 50	56		018/04/01	i	i L
15R	288	0001-0000.53	D R-METALL	130K	1 %	0207	TK 50	56	1	018/04/01	i	1 1
15R	289	0001-0007.284	R-METALL	100R	1 %		TK 50	56		18/04/01	İ	1 1
15 R	290	0001-0001.028	R-KOHLE	1 #	5%	0207		7.00		18/04/01	1	1 1
15R	291	0001-0001-895	R-METALL	590R	1 %		7 K 5 C	56		118/03/01	1	1 c
15 R	292	0001-0007-051	REMETALL	5 K 6 2	12		TK 5C	5.6		18/04/01	1	1 11
15R	295	0001-0007.051	K-KOHLE	15K	5%	0207	70	56		18/04/01	!	[]
15R	296	0001-0007.035	N-KUHLE	15 r	5%	0207		5.5		13/03/01	!	
15R	247	0001-0007.035	K-KCHLE	10K	5%	0207		56		18/03/01	!	
15 R	300	0001-0007.035	K-KOHLI	10k	5 %	0207		56		18/03/01	I	
15R	301	0001-0007.051	R-KOLLE	15K	5%	0207		5.6	1 3	18/03/01		
15 R	302	0001-0007.051	R-KCHL F	15K	5%	0207		5 6	1 0	18/03/01	!	!
	303	0001-0006-913	R-KOHLE	1 <	5%	0207		56	1 0	18/03/01	1	!
	1 500	0001-0007.051	I R-KOHLE	15K	5%	0207		5 6	1 0	18/03/01	1	
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	and,	43510 HOLLING										

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SERIE C 0907-8400_154 OPTION 907/00.15 AUSF:

TEILE-NE FART NO	SACH-NR ITEM NO	BENENNUNG DESIGNATION		BEZEICHNUNG 2	M 6		BEWERKUNG	SERIF AF
			1 - 2 - 1 - 1	MARKING 2	Q U	REF-DESIG	NOTE	I VERSION
15k 304	0001-0007-051	R-FOHLL	1 15K 5% 0207 !					T T
15 R 305	0001-0006-913	R-KOHLE	1 1k 5% 0207	56	1	018/03/01		1 !
15R 306	0001-0007.051	R-KOHLE	15K 5% 0207	56	1	018/03/01		1
15R 307	0001-0007-051	R-KOHLE	15K 5% 0207 I	5.6	1	018/03/01		
15R 308	0001-0006-913	R-KOHLE	1 1K 5% 0207	56	1	018/03/01		! !!
15 k 309	0001-0005-913	R-KOHLE	1 1K 5% 0207	56	1	018/03/01		! i l
15R 310	0001-0007-019	R-KOHLE	6K8 5% 0207	56	1	018/03/01		
15F 311	0001-0006-913	R-KOHLE	1 1K 5% 0207	56	1	018/03/01		!!!
15R 312	3001-0307.019		6KP 5% 02C7	56	1	018/03/01		!!!
15R 313	0001-0006.913	R-KOHLE	1K 5% 0207	56	1	018/03/01		1 1 1
15R 314	0001-0007.019	R-KOHLE	6 K8 5% 0207	56	1	018/03/01		i i l
				30	- 1	018/03/01		i i l
15 RLL 1	0000-7568-176	RELAIS GEPOLT KARTEN	400 AU 12V 720R HD	S4-12V	4			1
ISREL 2	0000-7568-176	RELAIS GEPOLT KARTEN.	400 AU 124 7209 HD	S4-12V	1	SDS		
ISREL 3	0000-7568-176	RELAIS GEPOLT KARTENI	400 AH 124 7200 HA	S4-12V	1	SDS		!!!
SREL 4	0000-7568-176	RELAIS GEPOLT KARTENI	400 AU 124 7208 HD 1	S4-12V	1	SDS		! !
SREL 5	0000-7568-176	RELAIS GEPOLT KARTEN!	400 AU 124 7208 HD 1	54-12V	1	SDS		! ! !
SREL 6	0000-7550.074	RELAIS GEPOLT KARTEN	220 AU 124 7200 UN	52-12V	4	SDS		
SREL 7	0000-7558.176	RELAIS GEPOLT KARTEN!	400 AU 124 7200 HO	s4-12V	1	118/02/05		
SREL 8	0000-7568-176	RELAIS GEPOLT KARTEN!	400 AU 124 7208 HD	S4-12V	1	SDS		i
SREL 9	0000-7550-074	RELAIS GEPOLT KARTEN	220 AU 12V 720R HD 1	s2-12v	1	SDS		i
		1	1		-1	118/02/05		1
5 T 1	0001-0071.993	TRANS SI NPN	BCY 59 B A TO 18!		1	177		1
5T 2	0001-0072.002	TRANS SI PNP	BCY 78 3 A TO 18		- 1		j	! [1
51 3	0001-0071-993	TRANS SI NPN	BCY 59 B A TO 18		- 1	177	!	! !!
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5T 5	0001-0071-993	TRANS SI NPN	BCY 59 B A TO 18		1			1 15
51 6	0001-0072.002	TRANS SI PNP	BCY 78 B A TO 18		1	ITT	i	1 1
51 7	0001-0071-993	TRANS SI NPN	BCY 59 B A TO 18		100	111	i	! !!
5 T 8	200-2700-1000	TRANS SI PNP	BCY 78 B A TO 181			ITT	1	1 1
51 9	0001-0071.993	TRANS SI NPN	BCY 59 B A TO 181			177	í	1 15
57 10	0001-0072.002	TRANS SI PNP	BCY 78 B A TO 18		1	ITT	i	1 1
57 11	0001-0071.993	TRANS SI NPN	BCY 59 B A TO 18			ITT	ì	1 1
5 T 12	0001-0072.002	TRANS SI PNF	BCY 78 3 A TO 18			ITT	1	1 1
51 13	0001-0072-002	TRANS SI PNF	BCY 78 9 A TO 18			ÎTT	!	1 1
5T 14	0001-0071.993	TRANS SI NPN	3CY 59 3 A TO 181			ITT	!	! !
5T 15	0001-0072.002	TRANS SI PNP	BCY 78 B A TO 18!	1		177	!	! !!
5T 16	0001-0072-002	TRANS SI PNP	BCY 78 B A TO 18	1		111		
57 17	0001-0071-993	TRANS SI NPN	BCY 59 B A TO 18			ITT		
	0001-0072-002		BCY 78 B A TO 181	1 "		TTT	1	
		TRANS SI NPN	BCY 59 B A TO 181	1		ITY	i	i II
5 T 2 C	0001-0072.002	TRANS SI PNP	BCY 78 B A TO 18!			TTT	i	1
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7 BU 1	0000-7581-085	D-STECKVERS. (M) A3 GE	15 2 2,77x2,84 S1 AU G	967 015 2763	1 1	ARTINS	!	.
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	0000-3713-006		2+E M EB LT 4 10	0 7 74 7 00 1.	- 1	19/01/05	1	
780 4	0000-3719.000	MASSEBUCHSE				19/02/06		1 1
780 5	0000-3719.000	MASSEBUCHSE		0 7740 00		19/02/06		1 1
71-0 6	0000-3719-0001	MASSEBUCHSE		0 7740 00		19/02/06	i	
ai Bactelluna S	Sach-Nr angeboot		,,,,		C C 1	17/02/00	1	1 15

Bei Bestellung Sach-Nr angeben! When ordering, quote Item No.

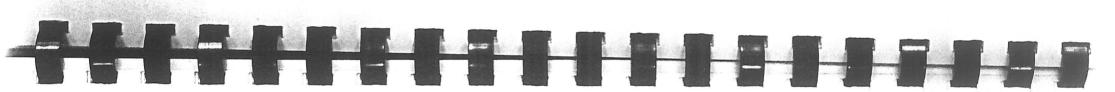
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SCHALITEILLISTE / FART-LIST

Schaftteilliste/Parts List

SERIF C 0907-8400.154 OPTION 907/00.15 AUSF:

TE	ILE-	NP S	ACH-NR	DE LICITION OF									
PAI	N TS	0 1	TEM NO	DESIGNATION	MARKING 1		BEZEICHNUNG 2 MARKING 2		M3 QU	WERKNORM REF. DESIG	BEMERKLNS	SERIE AF	
176 176 176 176 176 176	1 U 1 U 1 U	9 0 10 0 11 0 12 0	000-3719.000 060-3719.000 060-3719.000 000-3719.000	MASSEBUCHSE MASSEBUCHSE MASSEBUCHSE MASSEBUCHSE MASSEBUCHSE MASSEBUCHSE MASSEBUCHSE	1 M LF 1 M LF 1 M LF 1 M LF 1 M LF	LT LT LT LT LT	00-3719-00 00-3719-00 00-3719-00 100-3719-00 100-3719-00 100-3719-00		1 1 1 1 1	119/02/06		VERSION	L
17c		1 0	001-0004-821	C-KERAMIK FOOT	1 M LF	LT 4DV	00-3719-00			119/02/06			L
17C 17C 17C 17C 17C		3 00 4 00 5 00 7 00	001-0004.821 001-0004.821 001-0004.821 001-0004.821 001-0010.145	C-KERAMIK FDPT C-KERAMIK EDPT C-KERAMIK EDPT C-KERAMIK FDPT C-KF MKT C-KF MKT	22N 20/ 80 22N 20/ 80 22N 20/ 80 22N 20/ 80 22N 20/ 80 202 10%	4 0 V 4 0 V 4 0 V 4 0 V 1 0 0 V	F1000C 2 R10000 2 R10000 2 R10000 2 R10000 2 MKT1813 MKT1813	5 6 5 6 5 6 5 6 5 6 5 6	1 1 1 1	110/02/10 110/02/10 110/02/10 110/02/10 110/02/10 110/03/06 110/03/06			
1761 1761 1761 1761 1761 1761 1761 1761	10	3 00 3 00 5 00 6 00 7 00 8 00 9 00 0 00 1 00 2 00	00-7536.881 00-7536.881 00-7536.881	LED ROT 3MM LED ROT 3MM LED ROT 3MM LED ROT 3MM LED ROT 3MM LED GRUEN 3MM LED GRUEN 3MM LED GRUEN 3MM LED GRUEN 3MM LED GRUEN 3MM LED GRUEN 3MM LED GRUEN 3MM	LD 30 11 LD 30 11 LD 30 11 LD 30 11 LD 30 11 LD 37 1 LD 37 1 LD 37 1 LD 37 1 LD 37 1 LD 37 1	PD 771 PD 771 PD 771 PD 771 PD 771 PD 771 PD 771 PD 771 PD 771 PD 777 PD 777 PD 777 PD 777 PD 777 PD 777 PD 777 PD 777 PD 777 PD 777		,	1 1 1 1 1 1 1 1 1 1 1 1	114/03/03 114/03/03 114/03/03 114/03/03 114/03/03 114/03/03 114/03/03 114/03/03 114/03/03			
17R 17R 17R 17R	1 2 3 4	000	00-7597.011 00-7597.011 01-0006.890 00-7597.008	R-METALL R-METALL R-KOHLE R-METALL	33R2 1% 33R2 1% 68OR 5% 27R4 1%	0414 0414 0207 0414	TK 50 BALOX! TK 50 BALOX!	56 56 56 56	1 0	018/04/01 018/04/01 018/03/01 018/03/01			L A A C A
17S	2	000	1-0034-176	1	5U AU 12RAST 10X 001 AG B 1,42	LUE!	14 17		1 E	BE 113/05/02	į		A
171	1	000	00-7581.098 c	-STECKVERB_(V)ABGEW		4 S1 AU (1967 015 2663			ARTING			L
0.05									, pa	OTOROLA			
Bei Be	stellung	Sach-Nr	angeben!					1	ı	1	1	1 1	



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S C H A L T T F I L L I S T E / P A R T - L I S T

BLATT 1 12.07.97

SERTE J 0840-8401.009 BNT-1

AUSF:

ART NO	SACH-NR TEP NO	EENEMHUNG EESIGNATION	BEZEICHN MARKING		,	MARKING S BESEICHNUNG S		WERKNOPH FEF.DESIG	BEMERK UNG NOTE	SERIE AL
10 1	0000-7525.740		1 5N	20%	250V	RY 15 KLASSE	Y 21 1	PESISTA		1
10 2		C-KF MKP ENTSTOER	1 5504	10%	250V	B81121 KLASSE X	21 1	STEMENS	1	i i
1 c 3	0000-7525.740		5 N	20%	250 V	RY 15 KLASSE	Y 21 1	RESISTA		1 1
10 4		C-KERAMIK SDPU	5 N	2 0%	250V	RY 15 KLASSE	Y 21 1	PESISTA.	1	i !
10 5	0000-7525.740		5 N	20%	250¥	RY 15 KLASSE	Y 21 1	RESISTA	-	1
10 6		C-XERAMIK SDPU	1 5N	20%	250V	RY 15 KLASSE	Y 21 1	RESISTA		i ;
10 7	0000-7525.740	C-KERAMIK SDPU	5 N	5 0%	25 OV	RY 15 KLASSE	Y 21 1	PESISTA	1	
10 11		LLKO-TA SINT FEST	3 83	20%	164	FTR-1	56 1	110/05/61	1	I i
10 12		ELEC-TA SINT FEST	1500	2.0%	6 V 3	FTR-4	56 1	110/05/41		1
10 13		ELKO-TA SINT FEST	470	20%	6 V 3	ETR-3	56 1	110/05/61	1	1
16 14		C-KERANIK EDPT	47UP	16%	63¥	k 5000 5		110/02/10	1	1 1
1 C 15		ELKO-TA SINT FEST	1 550	20%	16 V	TR-3		110/05/61		
16 16		LICO-TA SINT FEST	550	5.0%	164	FT H-3	50 1	110/05/61		1
1 C 17		C-KF MKT	100N	2 C%	100 A	M. T1822		110/03/07		i
10 18		C-KERAHIK EDPT	180P	7%	63V	N 750 18		110/02/09		i i
c 25		ELEG-TA SINT FEST	1 224	2.0%	16 V	FTR-3	5.6	110 705 761		i t
16 26			175	10%	4004	K11801	4	110/03/02		1
t 27	0001-0013.951	C-XF MKT	470N	20%	100 %	MKT1822	50 1	110,03,07		1 !
35	And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	C-KF MKT	1 100N	10%	4009	K71801	4 1	110/03/02		1
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40		ELXQ-AL	202	10%	100V	8KT1822	5.6	110/03/07		i
C 41	a construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the cons	C-SF FIKT	2200	10/ 50	250V	FELSIC CO 39	55 1	THORSON		i
C 42		ELKO-AL	2200	10% 10/ 50	250V	MKT 1813	5n	ROEDERS.T.		i
c 43		C-KERAMIK EDPT	N22	20/ 80		TELSIC CO 39	5-6	THOMSON	I	i i
c 50		C-A ERAMIK EDPT	22N	20/ 80	404 404	k10000 2 k10000 2	56	110/02/10		C
c 51		EL KO-AL	150000	10/ 50	108	ELSIC CO 39	56	110/02/10	1	1
6 52	and the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contra	C-ALRAMIK EDPT	1 364	20/ 80	404	R10000 2		THOMSON		! !
c 53		ELLU-AL	47000	10/ 50	25 V	FELSIC CO 37	50	THOMSON		1.
C 54		C-KERAMIK EDPT	1 22N	20/ 80	40 V	R10000 2	15	110/02/10		1
0 55	CCCU-7558.021		47900	10/ 50	25 V	FELSIC CO 37	22	CHOMSON		
0 60		C-KERAMIK EDPT	1 261	20/ 80	40¥	k10000 2	56	10/02/10		1 1
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C 65	0001-0004-818	C-KERAMIK EDPT	1 10N	20/100	40 V	R10000 2	56 1	110/02/10		!!!
C 66	0001-0004.805	C-KERAMIK EDPT	4 N7	20/100	4 D V	k10000 2		110/02/10		
c 67		C-KERAMIK FOPT	55W	08 \05	40 V	R10000 2		110/02/10		1
C 63		C-KERAMIK EDPT	22N	20/80	40 V	R10000 2		110/02/10		i i
C 69		C-KF MKU	1 10	20%	63 V	#32110		SIEMENS		i i
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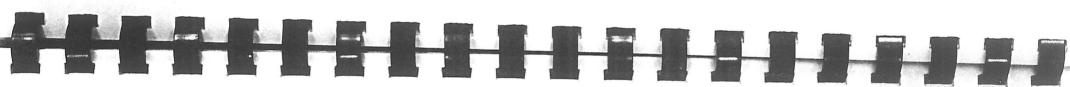
Bei Bestellung Sach-Nr. angeben! When ordering, quote Item No.

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HATT (12.07.4) SEPIE J 0840-8401.609 SNT-1 AUSF:

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Schaltteilliste/Parts List

SEFIE J 0840-8461.009 SNT-1

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SCRARTOHIISTO/Parts List

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IR 15	0001-0005.590	R-KOHLE	1 560k	5%	0207	1	56	1			1
IR 16	0001-0001.772	R-METALL	4K32	5%	0411		5.5	1	018/03/01		i !
P 17	0001-0003.369	R-METALL	5 1 1x	1%	0207	TK 50	56	1			1
R 18	3001-0001-882	R-METALL	5 K49		0207	1 TK 50	56	1			1
R 19	0001-0007-035	R-KOHLE	1 134	1 % 5 %	0207	TK 50	56	1			i
R 20	0001-0006.793	R-KOHLE	100R		0207	1	56	1			į į
R 21	0001-0007.035	R-KOHLE	10JK	5%	0207	i	56	1	018/03/01		1 1
£ 22	0001-0005-464	R-KOHLE	47K	5 % 5 %	0207	1	56	1	018/03/01		1 !
R 23	0001-0005-503	R-KOHLF	1 100K		0411	!	5 6	1	018/03/01		1
R 24	0001-0005-590	R-KOHLE	1 560K	5 % 5 %	0411		56	1	018/03/01		!
R 25	0000-7572-858	R-METALLOX 1D	6 K7	10%	0411	1	5.6	1	018/03/01		
R 26	0001-0006-8321	R-KOHLF	220R	5%	0922	TK400	56	1	DRALORIC		1
R 27	0001-0006.874	R-KOHLE	470R	5%	0207	1	56	1	018/03/01		i i
R 28	0001-0007-129	R-KOHLF	56K	5%	0207 0207	1	56	1	018/03/01		1
R 29	0001-0005.719	R-KOHLE	39R	5%	0207		5 5	1	018/03/01		i 1
R 30	0001-0006.719	R-KOHLF	39R	5%	0207	1	56	1	018/03/01		1 !
R 31	0001-0007.019	R-KOHLE	6 6 8	5%	0207	ì	56	1	018/03/01		1
R 32	0001-0007-158	R-KOHLF	1 100K	5 %	0207	i	5 6	1	018/03/01		! !
R 40	0001-0005.383	R-KOHLE	1 0K	5%	0411	i	56	1	018/03/01		1
R 41	0000-7566-806	R -V DR	26		1MA ON4	S 10 V-S10K230	56		018/03/01		i i
R 42	0001-0006.793	R-KOHLE	100R	5%	0207	12104-210K52		1	SIEMENS		j j
R 43	0001-0005-503	R-KOHLE	100K	5%	0411	!	56		018/03/01		1 1
R 44	0001-0006.939	R-KOHLE	1 K 5	5%	0207	1	5.5		013/03/01		1
	0001-0006-612	R-KOHLE	5 R 1	5%	0207		56		018/03/01		1 1
	0001-0006-612	R-KOHLE	5 R 1	5 %	0207	i	56		018/03/01		1 1
8 48	0001-0006-612	R-KOHLE	5 R 1	5%	0207	i	5 6		018/03/01		!!!
	0001-0006-890	R-KOHLE	680R	5%	0207	1			018/03/01		!!!
53	0001-0006.829	R-KOHLE	180R	5%	0207	!	5 6 5 6		018/03/01		
56	0001-0006.971	-KOHLE	3 K 3	5%	0207	1	56		018/03/01		
57	0000-7571-943	CHROHLE	0868	5%	0411	i	56		018/03/01		1 1
	0000-7571.943 F	C-KDHLE	3868	5%	0411	!	56		018/03/01	ĺ	1
	0000-7571-943 F	-KOHLE	0868	5%	0411	1	56		018/03/01	ı	1
60	0001-0006-641 F	-KOHLE	1 O R	5 %	0207	1	56		018/03/01		! !
70	0001-0006-638 R	-KOHLE	688	5%	0207	i	5.6		018/03/01	!	C
71	0001-0006-641 R	-KOHLE	1 D R	5%	0207	i	56		018/03/01	!	C
72	0001-0006-641 R	-KUHLE	10R	5 %	0207	I	56	9.1	018/03/01		
73	0001-0006-861 R	-KOMLE	1 O R	5 %	0207	!	5 5		018/03/01	1	
74	0001-0006-861 R	-KOHLE	390R	5%	0207		56		018/03/01		i
	0001-0006-861 R	-KONLE	390R	5%	0207	ĺ	56	. -	018/03/01	i	1
76	0001-0006-997 R	-KONLE	470R	5 %	0207		56		118/03/01	ĺ	1 1
77	0001-0001-808 R	-KUHLE	4 K 7	5%	0207		56		STATE OF THE PARTY AND ADDRESS OF	ĺ	1 1
78	0001-0002 292 R	-METALL	4 K 6 4	1 %	0207 1	TK 50	56	-	18/03/01	ı	1 1
79	0001-0002.292 R	-merall	15K4	1 %		TK 50	56		18/04/01	1	1 1
	VVVI UUULAIDIIK	-relatt	10 K	4 0/	0000		20	11 0	10/14/01	1	: 11
	0001-0007-116 R	-KOHI (47K	1 % 5 %	0207	TK 50	5.6		18/04/01	!	1 1

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H+G -EDV-

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Schaltteilliste/Parts List

SERIE J 0840-8401.009 5NT-1

AUSF:

TEILE-NE	SACH-VA ITEM NO	DESIGNATION	HEZEICHNU			MARKING 2		43	HERKVORM REF_DESIG	BEMERKUNG NOTE	SERIE AF VERSION
1R 81	0001-0006.793		100R	5%	0207	Account to the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	56	1	018/03/01		1
1R 82	0001-0006.913		1 K	5 %	0207	i	56	1			1
1R 83 1R 84	0001-0006.777		828	5 %	0207	!	56	1	0.0.0.		1
	0001-0006.751		1 68R	5 %	0207	i	56	1	018/03/61		1
1R 85	0001-0003-997		1 4K7	5 % 1 %	0207 0207	TK SC	56	1	018/03/61		1
1P 91	0001-0003.738		115R	1 %	0207	TK 50	5.5	1	018/04/01		1
1R 92	3840-7000-058		1 1135	1.4	0207	118 30	56	1	018/04/01		
1R 93	0001-0002-616		35×7	12	0237	TK 50	56	,	018/04/01		
1R 94	0001-0003.741		140R	1%	0207	ITK 5C	56	1	018/04/01		1
1R 95	0001-0019-337		1 0822	5 %	02 07	1	5 5	1	018/03/01		i
1R 96	0001-0019.337		1 OK22	5%	0207	!	56	1	018/03/01		1
1R 97	0001-0019.337		CR22	5 %	0207	!	5.5	1	018/03/01		1 !
1R 98	0001-0019-337		ORZZ	5%	0207	1	56	1	018/03/01		1
1R 99	0001-0003-741	R-METALL	1 143R	1%	0207	TK 50	56	1	018/04/01		!
IR 100	0001-0002-616	R-METALL	35K7	1 %	0207	I TK 50	56	1	318/04/01		! !
IR 101	0001-0006.557		1 R	5%	0207	!	5.5	1	018/03/01		1
R 102	0001-0002.027		7K68	1 %	0207	TK 5C	5.5	1	018/04/01		1
R 103	0001-0002-027		7468	1 %	0207	TK 50	56	1	018/04/01		i 1
R 104	0001-0305-118		56R	5%	0411	1	5 6	1	018/03/01		1
R 105	0001-0005-118		56R	5 %	0411	!	56	1	018/03/01		1
R 106		R-KOHLE	100R	5 %	0207		56	1	018/03/01		!
R 107		R-KOHLE	5 6 R	5 %	0207		56	1	018/03/01		
R 108		R-KOHLE	56R	5 X	0207		56	1	018/03/01		i i i
R 110	0001-0001.251		1 K 1 5	17	0207	TK 50	56	1	018/04/01		1 1
R 111		R-METALL	4 K 1 2	1 %	0207	TK 50	5.6	1	018/04/01		1
R 112 R 113		R-METALL	7 K 5	1%	0207	TK 50	56	1	018/04/01		1
R 114	0000-7517.651	R-METALL	4 K 6 4 1 2 K 1	1 % 0 % 2 5	0207	TK 50	56	1	018/04/01		j j
R 115	0000-7517.651				0207	TK 25	5.6	1	018/04/01		8
R 116	0001-0006-913	B-KUNI E	12K1	0%25 5%	0207 0207	TK 25	56	1	018/04/01		8
R 121		R-METALL	26K1	1%	0207	TK 50	5 6 5 6	1	018/03/01		1 1
R 122		R-METALL	475R	12	0207	TK 50	56	1	018/04/01		i i
R 123	0001-0007.035		1 0 K	5%	0207	1 . 20	56	1 1	018/04/01 018/03/01		i I
R 124	0001-0006-913		1 K	5%	0207	1	56	1	018/03/01		1 (
R 125		R-KOHLF	1 68DR	5%	0207	i	56	1	018/03/01		!!!
R 126	0001-0007-158		100 K	5%	02 07	i	5 6	1	018/05/01		1 1 1
R 127		R-KOHLE	15K	5%	0207	i	56	1	018/03/01		! ! !
R 128	0001-0007-064	R-KOHLE	18K	5 %	0207	1	56	1	018/03/01		i i l
R 129	3001-0007.187	R-K OHLE	180K	5 %	0207	i	56	1	018/03/01		i i l
R 130	0001-0007.022	R-KOHLE	8 K 2	5%	0207	i	56	1	018/03/01		1 1
R 131	0001-0006.803		120R	5 %	0207	!	5 5	1	018/03/01		1 ! !
R 132	0001-0007.158		100K	5 %	0207	1	5 6	1	018/03/01		1 1
R 133	0001-0007-035		13K	5%	0207	İ	56	1	018/03/01		
R 134	0001-0007.051		15 K	5 %	0237		56	1	018/03/01		; i l
R 135	0001-0007.022		8 K Z	5%	C267	1	56	1	318/33/01		
R 136	0001-0007.158		100K	5 %	0207	İ	56	1	015/03/01		i ! !
k 137	0001-0007.190		1 220k	5%	0207	!	. 56	1	018/03/01		1 1
R 138		R-ME TALL	53×6	1 %	0207	1 TK 50	5 5	1	018/04/01		i ! !
R 139		R-KOHL F	15 K	5 %	0207	i	56	1	018/33/01		
R 1401	0001-0006-939	R-KOHLE	1 1 K 5	5 %	0207	1	5.5	1	018/03/01		I i l

SERIE J 0840-8401_J09 SNT-1

AUSF:

		[MU21:						
PART NO		SACH-NR ITEM NO	BENENNUNC DESIGNATION	BETFICHNUNG 1	PETEICHNUNG S		M	MERKYORM	DEMED	
1R 14	4.1	0001 0007 30		1110	IMARKING 2		10	REF DESIG	BEMERKUNG	SERIE A
1R 14		0001-0007.20	O R-KOHLE	1 270K 5% 0207				1	MOLE	VERSIO
R 14		0001-0006.95	S R-KOHLF	1 242	i	56	1	018/03/01		-1
0.00		0001-0000.537	7 R-METALL	4000	i	5.5				1 1
	64	0001-0003-592	P-METAL I	7450	ITK 50	56		018/03/01	1	i i
R 14	• >	0001-0006-722	P-KOUIT	365R 1% 0207	ITK 5C			018/04/01		i i
R 14	40	0001-0306-913	I R-KOLLE	1 47R 5% 0207	1	56		018/04/01	1	i
R 14	.7	0001-0006.913	S P-KOHL	1K 5% 0207	i	5 6	1			1
R 14	8	0001-0006.735	REMORE	1K 5% 0207	Ĭ	5 5	1	018/03/01		1
R 14	9	0001 -0007 040	K-KOHLE	56R 5% 0207	1	56	1	018/03/01		i 1
15	0	0001-0007-019	R-KOHLE	10207	I .	56	1	018/03/01		1
	1	0001-0006.913	R-KOHLE	41	!	56	1	018/03/01		! !
	-	0001-0006-641	K-KOHFE	100	[56	li	218/03/01		!
R 15	5	0001-0006-641	R-KOHLE	0201	Į.	56				1
	- 1			10R 5% 0207	1		1	018/03/01		F
S	1	0000-7572-780	S-TASTE NETZ		I.	5 6	1	018/03/01		
			12-14215 MELZ	OOZ AG RAST	F 4304 20 55					F
1	1 1	0001-0020 847		Ī	F-430X-20-EE	O-CHASSIS	1	ITI		į l
_	· 1	2001-0050-863	G-SCHMELZEINSATZ	IT 3,15 /250 D 0-05						1
	- 1			3,13 /250 0 0,05	5 X 2 O	ĺ	1	115/02/01		1
	. !	0000-7571.875	TRANS SI NPN	BUX 86 A TO 126	-		,	113/02/01	ì	1
	UIL	0000-7564-219	TRANC CT N LMOC	13 11 (116)					j	1
11		1001-0016-518	TRANS ST NOW	2 N 6660 6 TO 39	i	W 0 0	1	VALVO	i	i 1
12	4 1 1	JUU1-UU16_77N	TRANC CT NON	BCY 59 D A TO 18	i	MOS		SILICONIX	i	1
15	5 0	0000-7570-656	TRANS ST ONE	12 N 2219 (BFX 97A TO 5			1	171	i	i i
16	slo	0001-0016-770	TRANS SI PAP	100 436 A TO 124			1	MOTOROLA	i	1
17	7 0	001-0017 207	TRANS SI NPN	2 N 2219 (BFX 97A TO 5		1	1	SIEMENS	i	
18	2 0	0001-0017-287	TRANS SI PNP	12 N 2905 A TO 39		1		ALCROTOM	ì	1
19		000-7570-643	TRANS SI NPN	100 175	i	1	1	MOTOROLA	i	i
	, , ,	UU1-UU16 9581	TRANC CT NON	HCV (F-4)			1	SIEMENS	i	i
	. 10	001-0016-5181	TRANC CT HOM	IBCV SO A				TFK	1	1
23	10	001-0016-518	TRANS SI NPN	1004 50					T	1
	- 1	1		BCY 59 D A TO 18				ITT	ì	1 1
E 1	0	840-7701-001	UFRERTRACED	i i		1	1	111	Ì	! !
2	0	000-7571-972	7 IVEND-TRAEA	!		1			ì	! !
3	0.	840-7727-001	HEREPTRACES	1:1 L=4MH RL=100R	IT 245		1			1 1
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BLATT 1 12-07-82

Schafttellliste/Parts List SERIE E 0907-8400-044 DA-10 907/00-04

AUSF:

TI ILI FART	-NK NO	SACH-NR ITEM NO	SENENNUNG DESIGNATION	BEZEICHNUNG 1 MARKING 1	MARKING 2	MG	WEEKNORM REF.DESIG	BEMIRKUNG NOTE	SERIE AF VERSION	С
131C 131C	6 7	0000-7571-668 0000-7571-668	IC-NMOS IC-NMOS	D2114AL-4 DIC 18 D2114AL-4 DIC 18	MOS	1 1	INTEL			L
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BLATT 1 12.07.82

Schaltteilliste/Parts List

SERIE E 0907-8400.099 CPTION 937/20.39

AUSF:

SERIE AF TEILE-NE SACH-NR BENEANTING BEZETCHNUNG 1 EFSETCHANNE 5 MG WEKKYOFM FEMERALLS FART NC ITEM 40 DESIGNATION MAKKING 1 IMARKING ? QU REF DESIG 4675 VERSION E79-1 0001-0040.704 ELKO-TA SINT FEST 1 113/35/61 0001-0010-093 C-KF MKT 0001-0010-093 C-KF MKT 8 C 10% 100 V MKT1813 113/03/06 1 U 8 C 1 1 10% 100V MF T1513 56 1 110/03/06 0001-0004-478 C-KERAMIK INP D 82P 3 C 2% 63V 10 1 110/02/09 56 11111111 0001-0004.821 C-KERAMIK EDPT 22 N 201 80 40V IR10000 2 1 110/32/10 56 0001-0004-821 C-KERAMIK 0001-0004-821 C-KERAMIK 5 C EDFT 25 N 501 80 40 V R10000 2 1 110/02/10 23/ 80 R10000 2 55 M 80 EDFT 40V 56 110/02/10 0001-0004.821 C-KERAMIK 20/ 80 28 EDPT 40V 55 1 110/02/10 8 C 0001-0004.821 C-KERAMIK 2 S M 20/ 80 40 V R10000 56 113/02/10 0001-0004.821 C-KERAMIK 0001-0004.821 C-KERAMIK 80 10 EDFT 55 M 20/ 80 40 V IR10000 2 113/02/10 80 11 EDFT 22 N 20/ 80 40 V R10000 2 56 110/02/10 0001-0004.821 C-KFRAMIK 201 80 R10000 2 8 C 12 [DF T 22N 40 V L 55 110/02/10 0001-0004.821 C-KERAMIK 20/ 80 8 C FDPT 22N E COCCEN 45 V 56 110/02/10 8 C 0001-0004-821 C-KERAMIK EDPT 2 2 N 20/ 80 R10000 56 113/02/10 15 0001-0004-821 C-KERAMIK 1K10000 2 8 C LOFT 25 N 201 80 4 0 V 110/02/10 1.6 17 22N 0001-0004.821 C-KERAMIK 23/ 80 8 C EDET 40 V 1R10000 2 1 110/02/10 0001-0004.821 C-KERAMIK 8 C EDPT 20/ 80 4 DV 1R10000 2 56 110/02/10 R10000 2 0001-0004-821 C-KERAMIK 8 C EDPT 22N 20/ 80 40 V 1 110/02/10 5 6 8 C 19 0001-0004-821 C-KERAMIK 22 N 23/ 80 R10000 56 110/02/10 0001-0004-821 C-KERAMIK 8 C 20 EDPT 5 S W 20/ 80 4 O V IR10000 2 56 1 113/02/10 8 C 0001-0004-821 C-KERAMIK IR10000 2 22N 23/ 80 40 V FDPT 56 1 110/02/10 0001-0004-821 C-KERAMIK 0001-0004-821 C-KERAMIK 1 110/02/10 1 110/02/10 20/ 80 EDFT 2 2 N 40V R10000 55 20/ 80 8 C 23 EDPT 55 W 4 0 V R10000 2 110/02/10 D001-0004-821 C-KERAMIK EDPT 0001-0004-821 C-KERAMIK EDPT 20/ 80 20/ 80 R10000 2 8 C 24 22 N 40V 55 1 110/02/10 1 110/02/10 1 110/02/09 40 V 0001-0004.287 C-KERAMIK FOFT 8 C 22P 2% 63V 56 NP 0 1 B 0001-0018-493 D10DE SI 0001-0018-493 D10DE SI 1 N 4448 8GL 00 35 1 ITT 35 DO 1 111 1 INTEL 1 TEXAS 0000-7577.604 IC-MOS D 80 85 AH-2 DIC 40 MOS 0001-0071-346 IC-TTL 0907-9344-002 IC-MOS 8 I C SN74LS373N DIP 20 BIC D2732A DIC 24 BV. 907-9344-002 MOS 0001-0067-169 IC-TTL SN74LS D8N 8IC 1 TEXAS DIP 14 0001-0070.512 IC-TTL SN74LS138N DIP 16 1 TEXAS BIC 0907-9345-001 IC-MOS 102732A DIC 24 | BV 907-9345.001 HM6116LP-3 DIC 24! BIC 0000-7580.992 IC-CMOS 405 HITACHI 0001-0065-585 IC-TTL SIC SN74LS DZN DIP 14 1 TEXAS 0000-7566.958 IC-NMOS D8253-5 DIC 24 810 405 1 INTEL BIC 0001-0065-695 1C-TTL SN74LS DON DIF 14 TEXAS SIC 12 0001-0056-837 IC-TTL SN74LS 74AN DIF 14 TEXAS 0001-0367-185 IC-TTL ISN74LS BON BIC 13 DIP 14 1 TEXAS 0001-0071.566 IC-TTL ISN74L S191N DIP 16 810 1 TEXAS C - -0001-0065.695 IC-TTL SN74LS DON 316 DIF 14 1 TEXAS 0001-0070-512 IC-TTL SN74LS138N SIC 16 DIF 16 1 TEXAS 0000-7555.590 1C-TTL BIC 17 ISN74LS1ZEAN DIP 14 1 TEXAS 81C 18 0000-7555,590 IC-TTL DIP 14 1 TEXAS LAL SN74LS126AN 0000-7577.617 IC-HMOS 19 D8155H-2 DIC 401 810 F05 1 INTEL 810 20 0000-7565-961 IC-NMOS 108255A-5 DIC 40 1 INTEL 405 0000-7541.481 K-MODUL 0000-7555.710 IC-TTI 8IC 21 10% 0W14 TK256 9X 55K 318/05/01 1 TEXAS BIC 22 15N74LS244N DIP 201

BLATT 2 14.07.82

SERIE E 0907-8400-099 OPTION 907/00-09

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SCHALITILLISTE / PART-LIST

Schaltteilliste/Parts List

6LATT 1 12.07.82

ILE	NO	SACH-NR ITEM NO	RENEWNUNG DESIGNATION	SEZEICHNUNG 1 MARKING 1	PEZEICHNUNG 2 MARKING 2	MG QJ	WERKNOHM REF.DESIG	PEMERKUNG NOTE	SERIE AF VERSION
BU	1	1	D-STECKVERB (M)	25 2 2,77x2,84 S1 AU	DH255-0L1	1	CANNON		;
C C	1 2	0001-0004.821	C-KERAMIK FDFT		R10000 2 56	1	110/02/10		
s T	1	0000-7547.867	D-STECKVERB (V)	25 2 2,77x2,84 S1 AU	D H 2 5 F	1	CANNON		
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SCHALTTEILLISTE / FAPT-LIST

Schaltteilliste/Parts List

SERIE A 0907-8400-170 OPTION 907/00-17

AUSF:

BLATT 1 17.07.52

TEILE-N)	SACH-VR ITEM NO	BENEARUNG DESIGNATION		BEZEICHNUNG 2 MAFKING 2	M3	* FRENORM REF DESIG	HEMERKUNG NOTE	SERIE AF VERSION
50en	1	0000-7580.536	D-STF CKVERB.(M)	15 2 2,77X2,84 SZ AU	F15S1	1	BECKMAN		
	1 2	0001-0004-821 0001-0010-145	C-KERAMIK EDPT C-KF MKT		R10000 2 56 MKT1813 56	1	113/02/16		
2051	1	0000-7580.549	D-STECKVERB.(V)	15 2 2,77x2,84 S2 AU	F15P1	1	BECKMAN		
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Bei Bestellung Sach-Nr. angeben! When ordering, quote Item No.

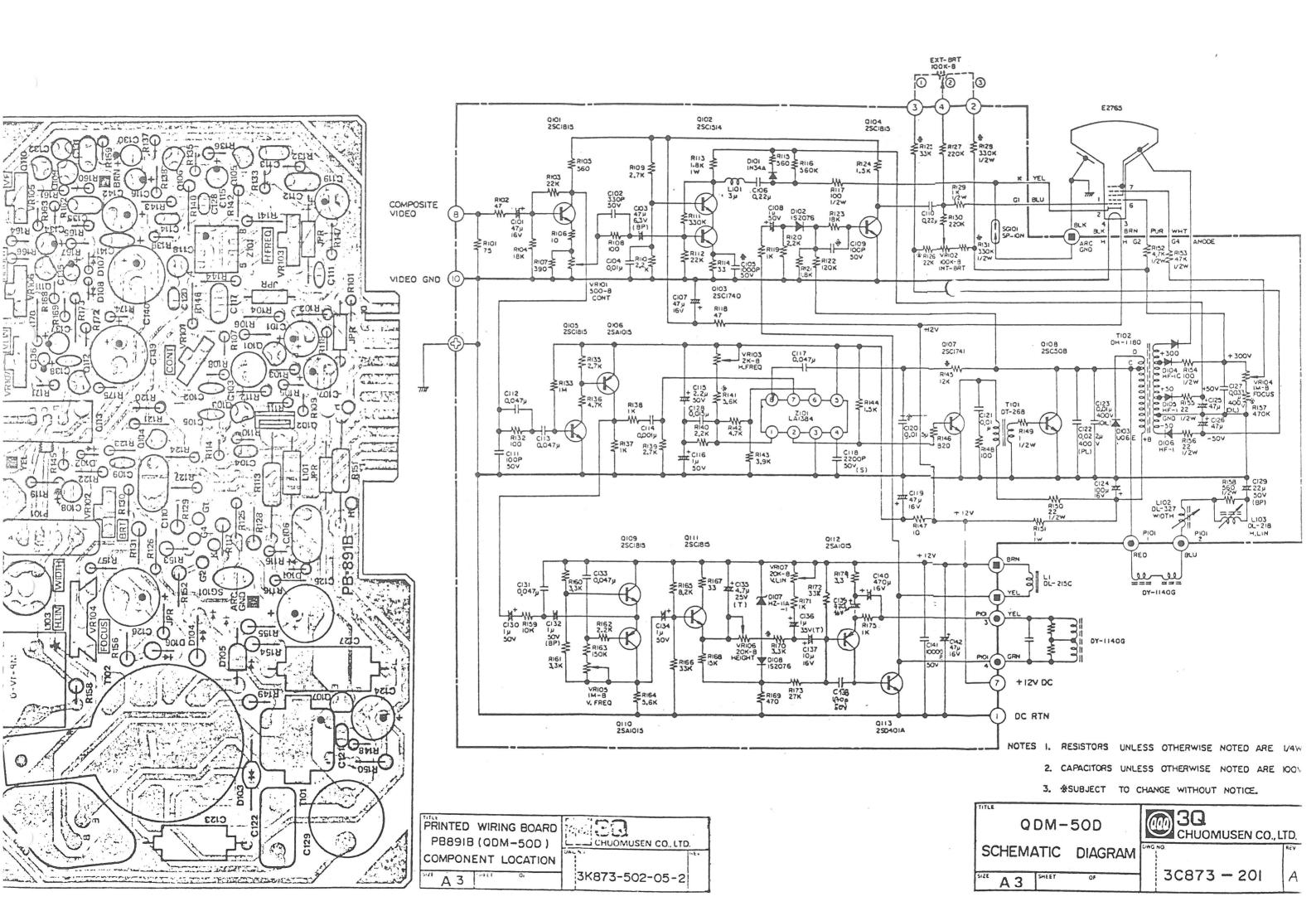
63

Zusatz zum Anhang DA-10 Additions to DA-10 Appendix Supplément à l'annexe DA-10

zu Stromlaufplan (5): Monitor für DA-10 to Circuit Diagram (5): Monitor for DA-10 pour schéma de principe (5): moniteur pour DA-10

zu Stromlaufplan (11): Siemens CPU-Platine SMP E12 A3 to Circuit Diagram (11): Siemens CPU p.c.b. SMP E12 A3 pour schéma de principe (11): platine CPU Siemens SMP E12 A3

zu Stromlaufplan (13): Kassetten-Interface und Kassetten-Laufwerk to Circuit Diagram (13): Cassette interface and cassette tape transport mechanism pour schéma de principe (13): interface de cassette et platine de cassette



MODEL QDM-50D PARTS LIST

SYM :	COMPONENT	RATING	Q'TY /SET	NOTE
Q101 102 103 104 105 106 107 108 109 110 111 112 113	Transistor	2SC1815 2SC1514 2SC1740 2SC1815 2SC1815 2SA1015 2SC1741 2SC508 2SC1815 2SA1015 2SC1815 2SC1815 2SC1815	1 1 1 1 1 1 1 1 1	
Z101	-Integrated circuit	LA1384	1	
D101 102 103 104 105 106 107 108	Diode Germanium Silicon Silicon Silicon Silicon Silicon Silicon Silicon Zener	1N34A 1S2076 U06E HF-1C HF-1 HF-1 HZ-11A-1 1S2076	1 1 1 1 1 1 1 1	
R101 102 103 104 105 106 107 1.08 109 110 111 112 113 114 115	Resistor Carbon film Carbon film Carbon film Carbon film Carbon film Carbon film Carbon film Carbon film Carbon film Carbon film Carbon film Carbon film Carbon film Carbon film Carbon film Carbon film Carbon film Carbon film Carbon film	75Ω $\pm 5\%$ 0.25W 47Ω $\pm 5\%$ 0.25W $22K\Omega$ $\pm 5\%$ 0.25W $18K\Omega$ $\pm 5\%$ 0.25W 560Ω $\pm 5\%$ 0.25W 10Ω $\pm 5\%$ 0.25W 10Ω $\pm 5\%$ 0.25W 100Ω $\pm 5\%$ 0.25W $2.7K\Omega$ $\pm 5\%$ 0.25W $2.2K\Omega$ $\pm 5\%$ 0.25W $2.2K\Omega$ $\pm 5\%$ 0.25W $2.2K\Omega$ $\pm 5\%$ 0.25W $2.2K\Omega$ $\pm 5\%$ 0.25W $2.2K\Omega$ $\pm 5\%$ 0.25W $2.2K\Omega$ $\pm 5\%$ 0.25W $2.2K\Omega$ $\pm 5\%$ 0.25W $2.2K\Omega$ $\pm 5\%$ 0.25W $2.2K\Omega$ $\pm 5\%$ 0.25W $2.2K\Omega$ $\pm 5\%$ 0.25W $2.2K\Omega$ $\pm 5\%$ 0.25W	1 1 1 1 1 1 1 1 1 1 1 1	

SHEET 2 OF 6	DWG NO 40873-801	PEV
SHEET 2 UF	DIG 70 40013-001	

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MODEL QDM-50D PARTS LIST

SYM	COMPONENT	RATING	Q' TY /SET	NOTE
R164 165 166 167 168 169 170 171 172 173 174	Resistor Carbon film Carbon film Carbon film Carbon film Carbon film Carbon film Carbon film Carbon film Carbon film Carbon film Carbon film Carbon film Carbon film Carbon film	5.6KΩ ±5% 0.25W 8.2KΩ ±5% 0.25W 33KΩ ±5% 0.25W 15KΩ ±5% 0.25W 470Ω ±5% 0.25W 3.3KΩ ±5% 0.25W 1KΩ ±5% 0.25W 3.3KΩ ±5% 0.25W 27KΩ ±5% 0.25W 3.3CΩ ±5% 0.25W 27KΩ ±5% 0.25W 3.3Ω ±5% 0.25W 1KΩ ±5% 0.25W 0.25W	1 1 1 1 1 1 1 1 1 1	
C101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131	Capacitor Electrolytic Ceramic Bipolar electrolytic Mylar Ceramic Mylar Electrolytic Electrolytic Ceramic Mylar Ceramic Mylar Mylar Mylar Mylar Mylar Electrolytic Electrolytic Electrolytic Electrolytic Mylar Mylar Styrol Electrolytic Mylar Mylar Mylar Mylar Electrolytic Mylar Styrol Electrolytic Mylar Mylar Mylar Mylar Bipolar electrolytic Electrolytic Electrolytic Electrolytic Electrolytic Electrolytic Electrolytic Electrolytic Electrolytic	47μF 50V 47μF 6.3V 0.01μF ±20% 100V 1000PF ±10% 50V 0.22μF ±20% 100V 47μF 16V 1μF 50V 100PF ±10% 50V 0.22μF ±20% 100V 100PF ±10% 50V 0.047μF ±20% 100V 0.047μF ±20% 100V 0.047μF ±20% 100V 0.047μF ±20% 100V 2.2μF 50V 1μF 50V 0.047μF ±20% 100V 2.2μF 10% 50V 47μF 50V 0.015μF ±20% 100V 0.01μF ±20% 100V 0.01μF ±20% 100V 0.01μF 10% 400V 0.01μF 10% 400V 0.01μF 10% 400V 0.01μF 100V 0.033μF 400V 0.015μF 50V 1μF 50V 0.047μF ±20% 100V 22μF 50V 1μF 50V 0.047μF ±20% 100V		

SHEET 4 OF 6	DWG NO 4C873-801	PEV

MODEL QDM-50D PARTS LIST

R116 117 118 119	Resistor Carbon film			
117 118	Carbon film			
117 118	Carbon film	1		
117 118		560KΩ ±5% 0.2	577	
118	Carbon film		1 1	
1	Carbon film	1.00	1 1	
	Carbon film	$\frac{4/\Omega}{1K\Omega} \pm 5\% = 0.2$		
120	Carbon film	2.2K\Omega ±5% 0.2	1	
121	Carbon film	1.8KΩ ±5% 0.2		
122	Carbon film	120KΩ ±5% 0.2		
123	Carbon film	18KΩ ±5% 0.2	1	
124	Carbon film	1.5KΩ ±5% 0.2		
125	Carbon film	33KΩ ±5% 0.2	1 7	
126	Carbon film	22KΩ ±5% 0.2		
127	Carbon film	220KΩ ±5% 0.2	4	
128	Carbon film	330KΩ ±5% 0.5	1	
129	Carbon film	1KΩ ±5% 0.5	1 1	
130	Carbon film	220ΚΩ ±5% 0.2	1	
131	Carbon film	330KΩ ±5% 0.5	1	
132	Carbon film	100Ω ±5% 0.2		
133	Carbon film	1MΩ ±5% 0.2		
	00100111111		J. 1	
135	Carbon film	2.7KΩ ±5% 0.2	5W 1	
136	Carbon film	4.7KΩ ±5% 0.2	1	
137	Carbon film	1KΩ ±5% 0.2	1 1	
138	Carbon film	1K\lambda \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 1	
139	Carbon film	2.7KΩ ±5% 0.2	3	
140	Carbon film	2.2KΩ ±5% 0.2		
141	Carbon film	5.6KΩ ±5% 0.2	1 1	
142	Carbon film	4.7KΩ ±5% 0.2		
143	Carbin film	3.9KΩ ±5% 0.2	1 1	
144	Carbon film	1.5KΩ ±5% 0.2		
145	Carbon film	12KΩ ±5% 0.2	-	
146	Carbon film	820Ω ±5% 0.2		
147	Carbon film	10Ω ±5% 0.2		
148	Carbon film	100Ω ±5% 0.2		
149	Carbon film	1Ω ±5% 0.5	, ,	
150	Carbon film	22\Omega ±5% 0.5		
151	Metal film	1Ω ±5% 1W	" 1	
152	Carbon film	4.7KΩ ±5% 0.5		
153	Carbon film	47KΩ ±5% 0.5	1	
154	Carbon film	100Ω ±5% 0.5		
155	Carbon film	22Ω ±5% 0.5	1 1	
156	Carbon film	22Ω ±5% 0.5	, , ,	
157	Carbon film	470KΩ ±5% 0.2	1	
158	Carbon film	560Ω ±5% 0.5		
159	Carbon film	10KΩ ±5% 0.2		
160	Carbon film	3.3Kn ±5% 0.2		
161	Carbon film	3.3KΩ ±5% 0.2		
162	Carbon film	2.2KN ±5% 0.2		
163	Carbon film	150KΩ ±5% 0.2		

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SHEET	3	OF 6	DEG NO 40873-801		,5 <u>5</u> 7,

MODEL QDM-50D

PARTS LIST

MODEL QDM-50D PAR

PARTS LIST

SYM	COMPONENT	RATING	Q'TY /SET	NOTE
SG101	Spark gap	SP-10N	1	
	Wrapping terminal		. 3	
	Wrapping terminal tip		1	
	Jumping wire	JPW-03	5	
	Cathode ray tube	E2765B4,B31,B39	1.	
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	Choke coil	DL-215C	1	
	PC board	PB-891	1 .	
				* * * * * *

SYM	COMPONENT	RATING	Q TY /SET	NOTE
C133 134 135 136 137 138 139 140 141	Capacitor Mylar Electrolytic Tantalum Tantalum Electrolytic Ceramic Electrolytic Electrolytic Ceramic Electrolytic	0.047µF ±20% 100V 1µF 50V 4.7µF 25V 1µF 35V 10µF 16V 470PF ±10% 50V 470µF 16V 470µF 16V 0.01µF 50V 47µF 16V	1 1 1 1 1 1 1	
VR101 102 103 104 105 106 107	Variable resistor	500 -B 100K -B 2K -B 1M -B 1M -B 20K-B 20K-B	1 1 1 1 1	
L101 102 103	Coil Peaking Width Linearity	3μ H DL-327 DL-218	1 1 1	
T101	Transformer Horizontal drive Flyback	DT-268 DH-1180	1 1	
P101	CRT Socket Pin connector	S7-502B-40 A4-705B-00	1	
	Heat sink	Type E	í	

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SHEET 6	37	_6	DWG NO 4C873-801		bEl.

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Fehler - Bitt	bericht für Mikrocomputer-Baugruppen e ausfüllen und der eingeschickten Baugruppe beilegen -
	rganisatorische Angaben
Typ der	eingeschickten Baugruppe
o dure	ten auf neue Version hführen, soweit möglich (Normalfall) t durchführen
Ansprech Firma	npartner für technische Fragen
Name:	
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B Feh	Lermerkmale
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Fehlerbesch	reibung
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Joedin	gungen (verwendete Zentral-Baugruppe, Einstellungen)
	,

SIEMENS

Mikrocomputer-Baugruppensystem SMP

SMP-E12-A3 Version 3
Zentraleinheit (SAB8085A) mit serieller Ein-/Ausgabe Bestell-Nr. C8451-A1-A21

Technische Beschreibung 9.82 Sach-Nr. L8451-A1-A21-2

Anderungen der Version 3 gegenüber den Versionen 1 und 2:

- 1 Der serielle Schnittstellen-Baustein 2651 wurde durch den Typ 2661 ersetzt.
- 2 Die Bezeichnungen der Wrapstifte zum Einstellen der Baugruppe wurden geändert.

2	Innalt	
1	Eigenschaften	Seite
2	2 Arbeitsweise	3
3	Schnittstellen	3
4	Allgemeine Fragen des Einbaus	8
5	Arbeiten mit dem Mikroprozessor SAB8085A	11
6	Arbeiten mit der seriellen Ein-/Ausgabe	11
7	Einstellung der Baugruppe	12
8	Programmierung	14
9	Original-Datenblatt des Bausteins 2661	17
	2001	18

Hinweis:

Negierte Signale werden in Stromlaufplänen durch einen Strich über dem Signalnamen gekennzeichnet (z.B. MEMR). Da dies aus drucktechnischen Gründen im
Textteil dieser Beschreibung nicht möglich ist, wird dort die Negation durch
einen Schrägstrich hinter dem Namen ausgedrückt (z.B. MEMR/). Beide Darstellungen werden nebeneinander verwendet und haben gleiche Bedeutung.

1 Eigenschaften

Die Baugruppe SMP-E12-A3 enthält die Zentraleinheit und eine serielle Ein-/Ausgabe. Die Zentraleinheit besteht aus dem Baustein SAB8085A, der softwareseitig aufwärtskompatibel zum SAB8080A ist und mit einem Systemtakt von 3,072 MHz (Periodendauer 0,326 µs) arbeitet. Es besteht die Möglichkeit, über Wrapbrücken 0 bis 4 Wartezyklen festzulegen, um mit langsameren Ein-/Ausgabe-Einheiten arbeiten zu können.

Die serielle Ein-/Ausgabe besteht aus dem Baustein 2661, einem Taktgenerator für 5,0688 MHz und Pegelumsetzern für die V24/V28-Schnittstelle. Der Ein-/Ausgabe-Baustein kann unabhängig für Sender und Empfänger mit internem oder externem Übertragungstakt betrieben werden. Über die serielle Ein-/Ausgabe sind synchrone und asynchrone Datenübertragung mit der V24/V28-Schnittstelle und Übertragungsgeschwindigkeiten zwischen 50 und 19200 bit/s möglich.

Die Baugruppe ist mit einer Bus-Messerleiste zum Anschluß an den Systembus und mit einer Peripherie-Buchsenleiste zum Anschluß des seriellen Ein-/Ausgabegeräts ausgerüstet.

Arbeitsweise

Das Blockschaltbild der Baugruppe SMP-E12-A3 ist in Bild 2-1, der Stromlaufplan in Bild 2-2 und der Belegungsplan in Bild 2-3 dargestellt. Die Arbeitsweise wird im folgenden anhand des Blockschaltbilds erläutert.

Die "Zentraleinheit" besteht aus dem Mikroprozessor-Baustein SAB8085A. Zur internen Informationsübertragung werden Adressen mit 16 bit Breite und Daten mit 8 bit Breite benutzt. Das höherwertige Adreßbyte wird auf den Leitungen A8...A15 übertragen. Das niederwertige Adreßbyte benutzt zusammen mit dem Datenbyte die Leitungen ADO...AD7 im Zeitmultiplex-Verfahren. Da in einigen Fällen das ganze Adreßwort gleichzeitig benötigt wird, werden die niederwertigen 8 Adreßbits in einem "Adreß-Register" zwischengespeichert, an dessen Ausgänge sie dann statisch zur Verfügung stehen.

Die Zentraleinheit steuert die auf der Baugruppe vorhandene "Serielle Ein-/Ausgabe" nach dem direkten Ein-/Ausgabe-Verfahren an. Das entsprechende Auswahlsignal wird von einem als "Adreß-Dekoder" verwendeten PROM geliefert. Mit dem gleichen Adreß-Dekoder wird auch das Signal MMIO/ für die Ansteuerung von externen Ein-/Ausgabe-Einheiten nach dem Speicher-Ein-/Ausgabe-Verfahren erzeugt.

Beim Datenverkehr mit Ein-/Ausgabe-Baugruppen des Systems SMP kann es erforderlich sein, die Arbeitsgeschwindigkeit der Zentraleinheit an die der Baugruppen anzupassen. Dies geschieht mit Hilfe der "Wartelogik", wobei die Anzahl der einzuschiebenden Wartezyklen mit Wrapbrücken eingestellt wird.

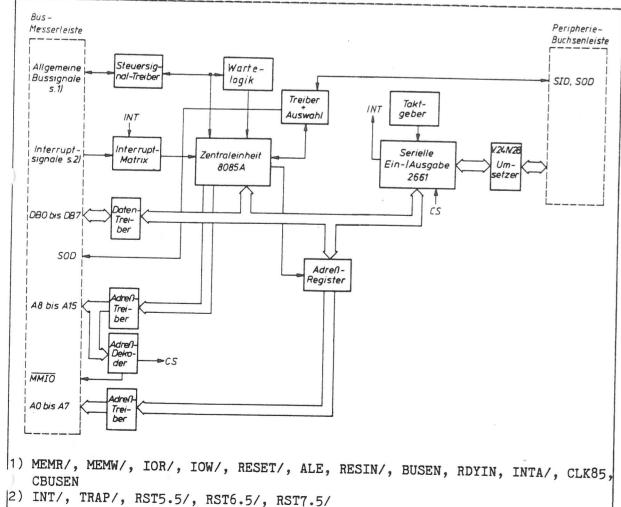
Die serielle Ein-/Ausgabe besteht aus dem Baustein 2661, einem "Taktgeber" mit der Frequenz 5,0688 MHz und aus dem "V24/V28-Umsetzer" mit Pegelwandlern für die V24/V28-Schnittstelle. Der Ein-/Ausgabe-Baustein kann getrennt für Sender und Empfänger mit internem oder externem Übertragungstakt betrie-

ben werden. Bei internem Übertragungstakt tritt ein softwareseitig einstellbarer Frequenzteiler im Baustein 2661 in Funktion, der aus dem zugeführten 5,0688 MHz-Takt die gewünschte Übertragungsrate ableitet. Der interne Übertragungstakt kann über eine Wrapbrücke zu einem Anschluß der Peripherie-Buchsenleiste geführt werden und steht dort für Synchronisierungszwecke zur Verfügung. Bei Programmierung auf externen Übertragungstakt muß dieser Takt über Anschlüsse der Peripherie-Buchsenleiste und über Wrapbrücken dem Baustein zugeführt werden.

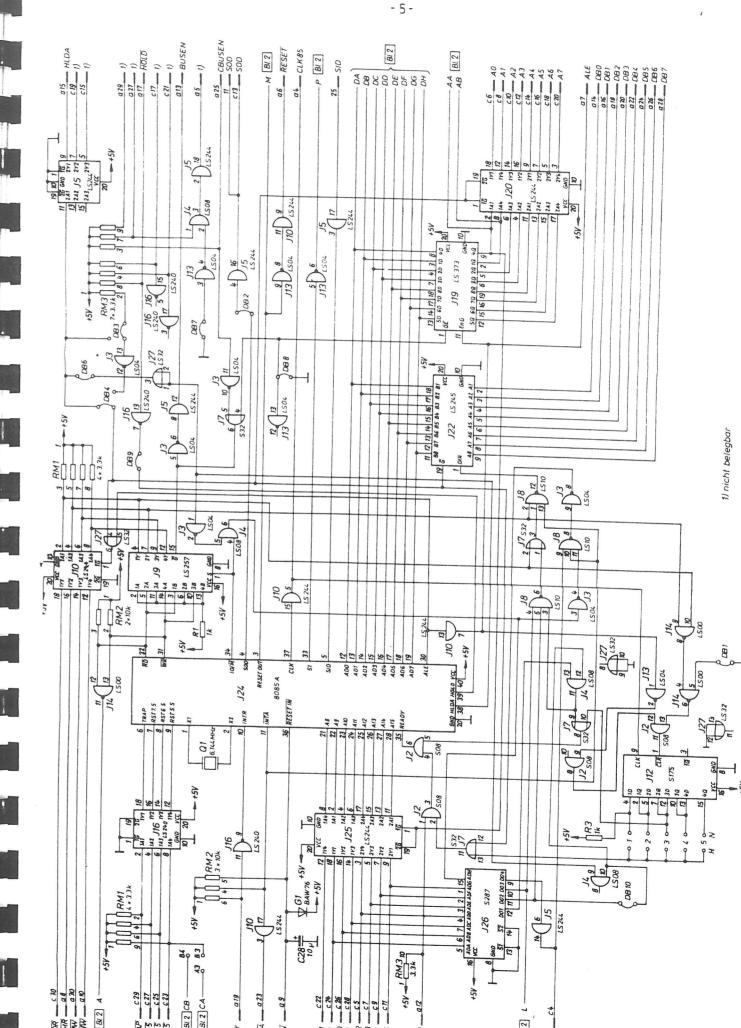
Die direkten Interrupteingänge der Zentraleinheit sowie die Anschlüsse für die externe Erweiterung des Interruptsystems sind auf Anschlüsse der Bus-Messerleiste geführt. Außerdem kann der direkte Interrupteingang RST5.5/ an die Interruptausgänge der seriellen Ein-/Ausgabe oder eines externen Geräts gelegt werden, das über die Peripherie-Buchsenleiste angeschlossen ist.

Bild 2-1 SMP-E12-A3, Blockschaltbild

Bild 2-2 SMP-E12-A3, Stromlaufplan Blatt 1 und 2



|2) INT/, TRAP/, RST5.5/, RST6.5/, RST7.5/



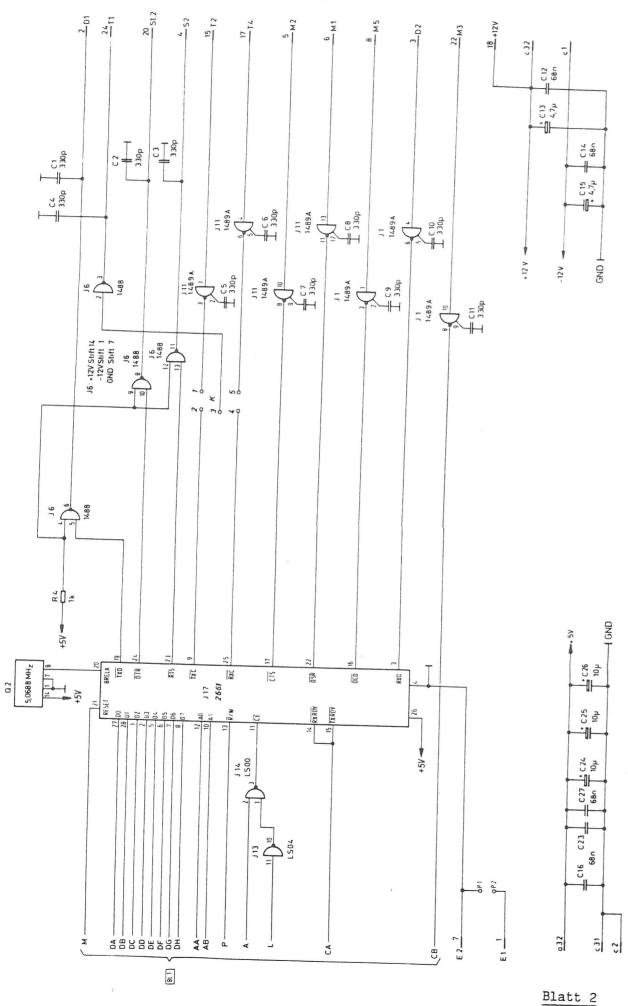
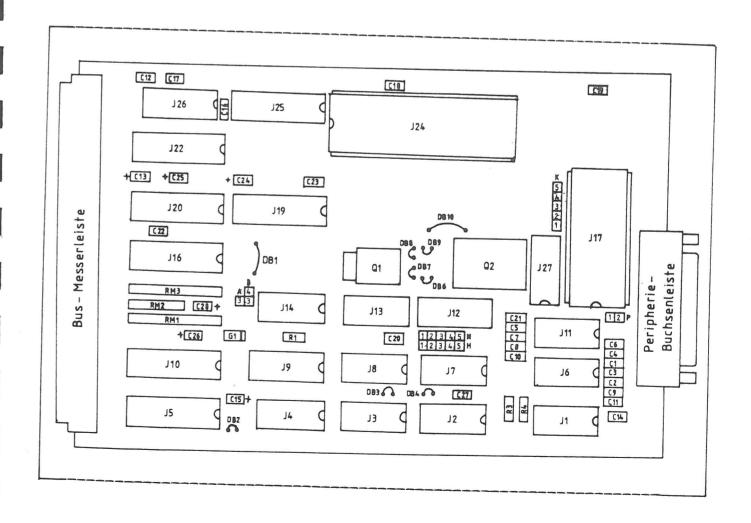


Bild 2-3 SMP-E12-A3, Belegungsplan (Blick auf Bauteileseite)



3 Schnittstellen

Die Baugruppe SMP-E12-A3 trägt an einer Schmalseite der Leiterplatte eine 64-polige Bus-Messerleiste nach DIN 41612, Bauform C. Auf der Peripherieseite befindet sich eine 25-polige D-Buchsenleiste zum Anschluß eines seriellen Ein-/Ausgabe-Geräts.

Mit der <u>Bus-Messerleiste</u> wird die Baugruppe an die Bus-Baugruppe gesteckt. Tabelle 3-1 zeigt die Signalbelegung der Bus-Messerleiste.

Die Standard-Bussignale AO...A15, MMIO/, DBO...DB7, IOR/, IOW/, MEMR/, MEMW/, RESIN/, RESET/, RDYIN, BUSEN, INT/ und INTA/ sind identisch mit den Signalen der Zentralbaugruppe SMP-E1.

Das Taktsignal CLK85 liegt auf dem gleichen Anschluß, auf dem bei der Baugruppe SMP-E1 das Taktsignal ØTTL liegt. Dieses Signal wird nur auf wenigen Speicher- und Ein-/Ausgabe-Baugruppen des SMP-Systems verwendet und es ist in jedem Fall die Erfüllung der Frequenzbedingungen zu prüfen. Das Signal ALE der Zentraleinheit liegt auf dem gleichen Anschluß, auf dem bei der Baugruppe SMP-E1 das Signal SYNC liegt. Es treten dadurch jedoch keine Probleme mit älteren Baugruppen auf.

An den Anschlüssen SOD, RST5.5/, RST6.5/, RST7.5/ und TRAP/ liegen die gleichnamig bezeichneten Signale des Bausteins SAB8085A. Hierfür werden Sondersignalanschlüsse der Bus-Messerleiste verwendet.

Das Signal BUSEN liegt auf dem gleichen Anschluß wie auf der Baugruppe SMP-E1, jedoch ist der Anschluß nunmehr ein Ausgang. Baugruppen, die das Signal BUSEN erzeugen wollen, müssen den Eingang CBUSEN benutzen, der auf einem Sondersignalanschluß liegt.

Tabelle 3-2 zeigt die Signalbelegung der 25-poligen Peripherie-Buchsenleiste. Die Signale der seriellen Schnittstelle erfüllen die Bedingungen der V24/V28-Norm. Auf unbelegten Anschlüssen stehen außerdem +12 V sowie die Signale SID und SOD des Bausteins SAB8085A gepuffert und mit TTL-Pegel zur Verfügung.

Typ und Signalbelegung der Peripherie-Buchsenleiste entsprechen der Schnittstelle einer DE-(Datenempfangs-)Einrichtung nach DIN 66020 (V24/V28-Schnittstelle). Sichtgeräte, die ebenfalls Datenempfangseinrichtungen sind, müssen deshalb über einen Zwischenstecker angeschlossen werden, der lediglich die Signale einiger Anschlüsse paarweise vertauscht.

Tabelle 3-1 SMP-E12-A3, Signalbelegung der Bus-Messerleiste

	7			
	Reihe			
Stift	a	С		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	- CLK85 2) - 5) RESET/ 1) ALE 3) MEMR/ 1) RESIN/ 1) MEMW/ 1) - RDYIN 1) BUSEN 1) DB0 1) HLDA 1) DB1 1) HOLD/ 1) DB2 1) INT/ 1) DB3 1) - DB4 1) INTA/ 1) DB5 1) CBUSEN 6) DB6 1) - 5) DB7 1) - 5) IOW/ 1)	-12V 1) GND 1) - MMIO/ 1) A12 1) A0 1) A13 1) A1 1) A14 1) A2 1) A15 1) A3 1) SOD 4) A4 1) - 5) A5 1) - 5) A6 1) - 5) A6 1) - 5) A7 1) - 5) A8 1) RST5.5/ 4) A9 1) RST7.5/ 4) A11 1) TRAP/ 4) IOR/ 1)		
31 32	10W/ 1) - +5V 1)	IOR/ 1) GND 1) +12V 1)		

- Standard-Bussignal, identisch mit SMP-E1, über Bus-Baugruppe durchverbunden
- 2) Standard-Bussignal, gegenüber SMP-E1 leicht modifiziert, über Bus-Baugruppe durchverbunden
- 3) Standard-Bussignal, gegenüber SMP-E1 veränderte Funktion, über Bus-Baugruppe durchverbunden
- 4) Sondersignal, über Bus-Baugruppe nicht durchverbunden
- 5) Keine Funktion, jedoch intern verbunden
- 6) Sondersignal, über Bus-Baugruppe durchverbunden

Tabelle 3-2 SMP-E12-A3, Signalbelegung der Peripherie-Buchsenleiste

An- schluß	Signal- name	Serielle Signale: DIN-Bezeichnung	Englische Bezeichng.	Signalname des 2661
1	E1	Schutzerde	Protective Ground	_
2	D1	Sendedaten	Transmitted Data	TxD
3	D2	Empfangsdaten	Received Data	RxD
14	S2	Sendeteil einschalten	Request to Send	RTS/
5	M2	Sendebereitschaft	Ready for Sending	CTS/
6	M1	Betriebsbereitschaft	Data Set Ready	DSR/
7	E2	Betriebserde	Signal Ground	GND
8	M5	Empfangssignal-Pegel	Received Line Signal Detector	DCD/
9	_	_	-	_
10	-	_	_	_
11	SOD	_	-	_
12	-	_	_	_
13	_	_	-	_
14	-	_		_
15	T2	Sendeschrittakt von DÜ-Einrichtung	Transmitter Signal Element Timing	TxC/
16	-	-	-	-
17	Т4	Empfangsschrittakt	Receiver Signal Element Timing	RxC/
18	+127	_	-	-
19	_	-	_	-
20	S1.2	DE-Einrichtung betriebsbereit	Data Terminal Ready	DTR/
21	-	-	-	-
22	M3	Ankommender Ruf	Calling Indicator	-
23	-	-	-	-
24	T1	Sendeschrittakt zur DÜ-Einrichtung	Transmitter Signal Element Timing	TxC/
25	SID	-	-	· _

Allgemeine Fragen des Einbaus

Mechanischer Aufbau Geätzte Leiterplatte 100 mm x 160 mm (Standard-Europaformat)

64-polige Bus-Messerleiste nach DIN 41612, Bauform C für mindestens 200 Steckzyklen

25-polige Peripherie-Buchsenleiste

Die Baugruppe verfügt zu ihrer Einstellung über Wrapstifte, die jeweils mit einem Buchstaben und einer Zahl bezeichnet sind (siehe hierzu Kapitel 7).

Mechanischer Einbau Die Zentralbaugruppe SMP-E12-A3 ist zusammen mit anderen Baugruppen des SMP-Systems für den Einbau in einen Baugruppenträger ES902 bestimmt. Als Rückwandverdrahtung des Baugruppenträgers ist die Bus-Baugruppe SMP-S401-A.. vorgesehen. Ein komplett montierter und verdrahteter Baugruppenträger steht in dem Systemmodul SMP-SYS51 zur Verfügung, der eine Bus-Baugruppe mit 12 Steckplätzen, Federleisten für zwei Netzgeräte, einen Netzschlüsselschalter und eine Rücksetztaste enthält.

Zulässiger Temperaturbereich

0 °C bis 55 °C bei freier Konvektion

Versorgungsspannung und Stromaufnahme

	Spannung		Stromaufnahme
Wer	t	Toleranz	typisch (d.h. bei unterschiedlichen Exemplaren sind im Mittel diese Werte zu erwarten)
+5 +12 -12	V	+5 % +5 % +5 %	600 mA 20 mA 15 mA

5 Arbeiten mit dem Mikroprozessor SAB8085A

Die Grundlagen für das Arbeiten mit dem Mikroprozessor SAB8085A sind dessen Datenblatt zu entnehmen und werden hier als bekannt vorausgesetzt. Im folgenden werden nur baugruppenbezogene Besonderheiten behandelt.

Der Mikroprozessor arbeitet auf der Baugruppe SMP-E12-A3 mit einer Taktfrequenz von 3,072 MHz. Für die Zusammenarbeit mit einigen E/A-Baugruppen muß die Zentraleinheit durch Einschieben von Wartezyklen verlangsamt werden. Die eingestellten Wartezyklen werden nur bei Ansteuerung von E/A-Baugruppen (direkte und Speicher-Ein-/Ausgabe) und beim Einlesen von Interruptanforderungen

wirksam. Die langsamste E/A-Baugruppe in einem System bestimmt die Anzahl der erforderlichen Wartezyklen. Die zum Einstellen der Wartezyklen vorgesehenen Wrapbrücken sind in Kapitel 7 aus Tabelle 7-2 und Bild 7-3 zu ersehen. Ihre Lage auf der Leiterplatte der Baugruppe zeigt Bild 7-1.

Von dem verfügbaren Ein-/Ausgabe-Adreßraum wird der Block zwischen ØECH und ØEFH für die Ansteuerung des E/A-Bausteins auf der Baugruppe verwendet. Für die Ansteuerung von externen E/A-Baugruppen nach dem Speicher-Ein-/Ausgabe-Verfahren ist der Adreßbereich ØFØØØH bis ØFFFFH vorgesehen. Sobald die Adresse in diesem Bereich liegt, geht das Signal MMIO/ auf L-Pegel.

Die direkten Interrupteingänge TRAP/, RST7.5/, RST6.5/ und RST5.5/ sowie der Anschluß SOD des Mikroprozessors stehen gepuffert an Anschlüssen der Bus-Messerleiste sowie die Signale SID und SOD zusätzlich an Anschlüssen der Peripherie-Buchsenleiste zur Verfügung. Bild 7-3 zeigt einen Auszug aus dem Stromlaufplan, aus dem die näheren Einzelheiten hervorgehen. An den Interrupteingang RST5.5/ können mit Wrapbrücken interne Interruptquellen angeschaltet werden. Dieser Interrupteingang läßt sieh dann jedoch nicht mehr extern verwenden.

Das Ausgangssignal BUSEN dient dazu, mit L-Pegel die im Ein-/Ausgabe-Verfahren adressierten E/A-Baugruppen bei direktem Speicherzugriff (DMA) vom Bus abzutrennen. Um BUSEN auf L-Pegel zu bringen, muß die DMA-Einheit als Reaktion auf die Busfreigabe mit HLDA das Eingangssignal CBUSEN auf L-Pegel bringen. Ist CBUSEN unbeschaltet, bleibt das Signal BUSEN immer auf H-Pegel.

6 Arbeiten mit der seriellen Ein-/Ausgabe

Die serielle Ein-/Ausgabe wird mit dem Baustein 2661 realisiert, dessen Datenblatt in Kapitel 9 angefügt ist. Der Inhalt dieses Datenblatts wird im folgenden als bekannt vorausgesetzt.

Der Baustein 2661 wird nach dem direkten Ein-/Ausgabe-Verfahren angesteuert. Die Bausteinadressen sind zusammen mit ihrer Funktion der Tabelle 8-1 in Kapitel 8 zu entnehmen.

Bild 7-3 in Kapitel 7 zeigt einen Auszug aus dem Stromlaufplan der Baugruppe, aus dem die für die serielle Ein-/Ausgabe wichtigen Einzelheiten hervorgehen. Dem Baustein 2661 wird für die interne Übertragungstakt-Erzeugung ein Takt von 5,0688 MHz zugeführt. Bei Programmierung des Empfängers auf interne Takterzeugung steht dessen Takt an Wrapstift K4, bei Programmierung des Senders auf interne Takterzeugung dessen Takt an Wrapstift K2 zur Verfügung. Über eine Brücke kann dieser Takt für Synchronisierungszwecke zum Anschluß T1 auf der Peripherie-Buchsenleiste geführt werden. Bei Programmierung des Bausteins auf externe Taktversorgung ist der Sendetakt über Anschluß T2 und eine Brücke dem Anschluß TxC/ und der Empfangstakt über Anschluß T4 und eine Brücke dem Anschluß RxC/ zuzuführen. Die Einstellungen sind in Tabelle 7-2 (Kapitel 7: Einstellung der Baugruppe) zusammengefaßt.

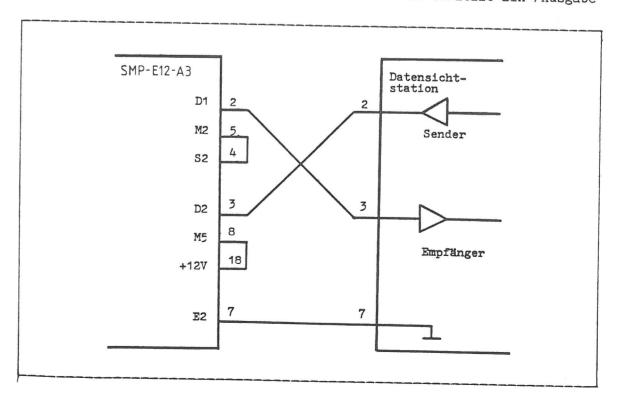
Für die Freigabe des Senders ist der Anschluß M2 und für die Freigabe des Empfängers der Anschluß M5 auf H-Pegel zu legen. Wenn in einfachen Anwendungsfällen, wie z.B. bei Datensichtstationen, nur die Signale E2, D1 und D2

benötigt werden, ist für die Freigabe M2 mit S2 und M5 mit +12V zu verbinden, wie es in Bild 6-1 dargestellt ist. Es ist dann softwareseitig dafür zu sorgen, daß S2 auf H-Pegel liegt.

An E2 steht Betriebserde und an E1 Schutzerde zur Verfügung. E1 läßt sich mit einer Brücke an Betriebserde legen und durch Entfernen der Brücke abtrennen, wie es die V24/V28-Norm fordert. Die Einstellungen sind ebenfalls in Kapitel 7 angegeben.

Die Interruptausgänge des seriellen Senders und Empfängers sind über eine ODER-Verknüpfung zusammengefaßt. Der direkte Interrupteingang RST5.5 des SAB8085A kann mit Hilfe einer Wrapbrücke wahlweise für den Sender-/Empfänger-Interrupt des Bausteins 2661 oder für einen von der Peripherie-Buchsenleiste kommenden Interrupt (M3 - "ankommender Ruf") verwendet werden, wie es in Tabelle 7-2 angegeben ist. Bei interner Verwendung des Interrupteingangs kann er natürlich nicht mehr extern benutzt werden. Der Interrupteingang RST5.5 spricht auf den Signalpegel an, d.h. die Interruptanforderung wirkt so lange, wie der Interruptpegel anliegt. Dies ist beim Baustein 2661 der Zeitraum zwischen der Aussendung des Interruptsignals (das Sender-Pufferregister ist leer bzw. ein empfangenes Zeichen wurde im Empfänger-Pufferregister aufgefangen) und der erfolgten Interruptbedienung (das Sender-Pufferregister ist wieder gefüllt bzw. das Empfänger-Pufferregister ist wieder leer). Ein gesondertes Rücksetzen der Interruptanforderung durch die Zentraleinheit ist nicht erforderlich.

Bild 6-1 SMP-E12-A3, Anschluß einer Datensichtstation an die serielle Ein-/Ausgabe



7 Einstellung der Baugruppe

Auf der Baugruppe sind Wrapstifte angebracht, die paarweise gebrückt werden können. Durch diese Beschaltung werden bestimmte Betriebsarten vom Anwender fest vorgegeben. Die Lage der Wrapstifte auf der Baugruppe ist in Bild 7-1 angegeben. Kennzeichnung und Bedeutung der Brücken sind aus Tabelle 7-2 ersichtlich. Ihre Wirkungsweise innerhalb der Schaltung kann dann auch noch dem Schaltplanausschnitt in Bild 7-3 entnommen werden.

Bild 7-1 SMP-E12-A3, Lageplan der Wrapstifte (Blick auf Bauteileseite)

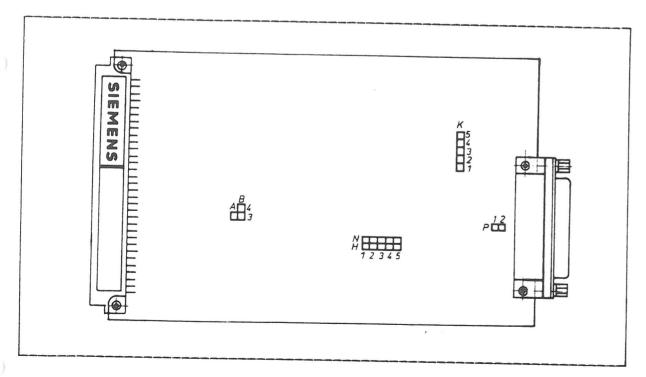


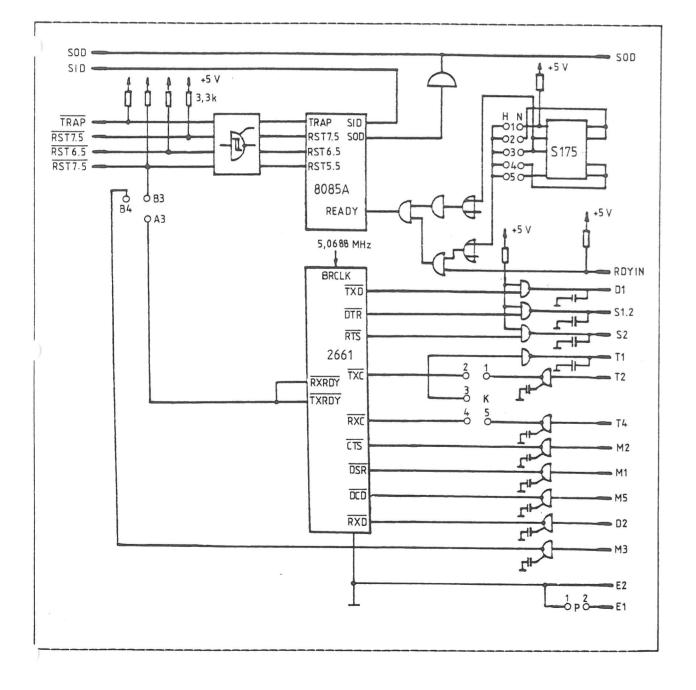
Tabelle 7-2 SMP-E12-A3, Kennzeichnung und Bedeutung der Wrapbrücken

(Zwischen zwei Stiften eingelegte Brücken sind durch das Zeichen "&" zwischen den Stiftnamen gekennzeichnet.)

Brücken	Bedeutung					
a) Anzahl de	a) Anzahl der Wartezyklen					
H5&N5	keine Wartezyklen					
H4&N4	1 Wartezyklus					
H3&N3	2 Wartezyklen					
H2&N2	3 Wartezyklen					
H1&N1	4 Wartezyklen					
b) Sende- und	i Empfangstakt für die serielle Ein-/Ausgabe					
K2&K3	Takt intern erzeugt - Sendetakt an T1 (Peripherie-Buchsen- leiste					
K4&K3	Takt intern erzeugt - Empfangstakt an T1 (Peripherie-Buch-senleiste)					
K1&K2	Zuführung des Sendetakts von außen über T2 (Peripherie-Buch- senleiste)					
K4&K5	Zuführung des Empfangstakts von außen über T4 (Peripherie- Buchsenleiste)					
c) Betriebser	de					
P1&P2	E1 (Peripherie-Buchsenleiste) an Betriebserde (E2)					
d) Interruptq	uelle für RST5.5 (SAB8085A)					
A3,B3,B4 ungebrückt Anschluß RST5.5/ der Bus-Messerleiste an RST5.5						
A3&B3 1) Sender und Empfänger über ODER-Verknüpfung an RST5.5						
B3&B4 1) M3 (Peripherie-Buchsenleiste) an RST5.5						

¹⁾ Der Anschluß RST5.5/ der Bus-Messerleiste darf in diesem Fall nicht beschaltet werden.

Bild 7-3 SMP-E12-A3, Auszug aus dem Stromlaufplan zur Erläuterung der Wrapbrücken (ohne Daten- und Adreßleitungen)



8 Programmierung

Für die Ansteuerung des E/A-Bausteins auf der Baugruppe nach dem direkten Ein-/Ausgabe-Verfahren stehen insgesamt vier Adressen in dem zusammenhängenden Block ØECH...ØEFH zur Verfügung. Die Verwendung dieser Adressen geht aus der nachstehenden Tabelle 8-1 hervor.

Da die Baugruppe SMP-E12-A3 von der Baugruppe SMP-E3-A3 abgeleitet ist, kann man für die erste auch grundsätzlich das Monitor-Programm SMP-MON2 benutzen. Dieses Programm greift jedoch mit der Adresse ØF8H auf die DMA-Steuerung der Baugruppe SMP-E3-A3 zu, die auf der Baugruppe SMP-E12-A3 nicht vorhanden ist. Soll daher das Programm SMP-MON2 in Verbindung mit der Baugruppe SMP-E12-A3 benutzt werden, darf diese Adresse nicht angesprochen werden.

Tabelle 8-1 SMP-E12-A3, Adressierung des E/A-Bausteins 2661

Adresse (hex.)	Ausgabe zum Baustein (OUT)	Eingabe vom Baustein (IN)
EC	zu sendendes Zeichen	empfangenes Zeichen
ED	SYN1/SYN2/DLE-Wort	Statuswort
EE	Modewörter 1 und 2	Modewörter 1 und 2
EF	Kommandowort	Kommandowort

Original-Datenblatt des Bausteins 2661

Um den Anwender der Baugruppe SMP-E12-A3 mit allen erforderlichen Informationen zu versorgen, wird nachfolgend zu dem im Kapitel 6 als bekannt vorausgesetzten Baustein folgende Herstellerunterlage in Originalfassung angefügt:

Baustein 2661, Signetics: Datenblatt "Enhanced Programmable Communications Interface (EPCI)" Ausgabe 3.81



EN MANGEN EN MENANGEN (EVEL)

DESCRIPTION

The Signetics 2661 EPCI is a universal synchronous/asynchronous data communications controller chip that is an enhanced pin compatible version of the 2651. It inter-

• Double buffered transmitter and faces directly to most 8-bit microprocessors and may be used in a polled or interrupt . • Dynamic character length switching driven system environment. The 2661 ac- • Full or half duplex operation cepts programmed instructions from the • Fully compatible with 2650 CPU microprocessor while supporting many • TTL compatible inputs and outputs serial data communications disciplines— • RxC and TxC pins are short circuit prosynchronous and asynchronous-in the full or half-duplex mode. Special support for • 3 open drain MOS outputs can be wire-BISYNC is provided.

The EPCI serializes parallel data characters received from the microprocessor for transmission. Simultaneously, it can receive sarial data and convert it into parallel data characters for input to the microcomputer.

The 2661 contains a baud rate generator which can be programmed to either accept an external clock or to generate internal transmit or receive clocks. Sixteen different baud rates can be selected under program control when operating in the internal clock mode. Each version of the EPCI (-1, -2, -3) has a different set of baud rates.

The EPCI is constructed using Signetics n-channel silicon gate depletion load technology and is packaged in a 28-pin DIP.

FEATURES

- Synchronous operation 5 to 8-bit characters plus parity Single or double SYN operation Internal or external character synchronization Transparent or non-transparent mode Transparent mode DLE stuffing (Tx) and detection (Rx) Automatic SYN or DLE-SYN insertion SYN, DLE and DLE-SYN stripping Odd, even, or no parity Local or remote maintenance loop back mode
- Baud rate: dc to 1M bps (1X clock) Asynchronous operation 5 to 8-bit characters plus parity 1, 1% or 2 stop bits transmitted Odd, even, or no parity Parity, overrun and framing error detection Line break detection and generation False start bit detection Automatic serial echo mode (echoplex) Local or remote maintenance loop back mode Baud rate: dc to 1M bps (1X clock)
- dc to 62.5K bps (16X clock) dc to 15.825K bps (64X clock)

OTHER FEATURES

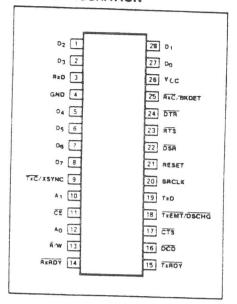
- · Internal or external baud rate clock
- 3 baud rate sets (2661-1, -2, -3) 16 internal rates for each set
- receiver

- tected
- ORed
- · Single 5V power supply
- No system clock required
- · 28-pin dual in-line package

APPLICATIONS

- Intelligent terminals
- Network processors
- · Front end processors
- · Remote data concentrators
- Computer to computer links · Serial peripherals
- BISYNC adaptors

PIN CONFIGURATION



ORDERING CODE

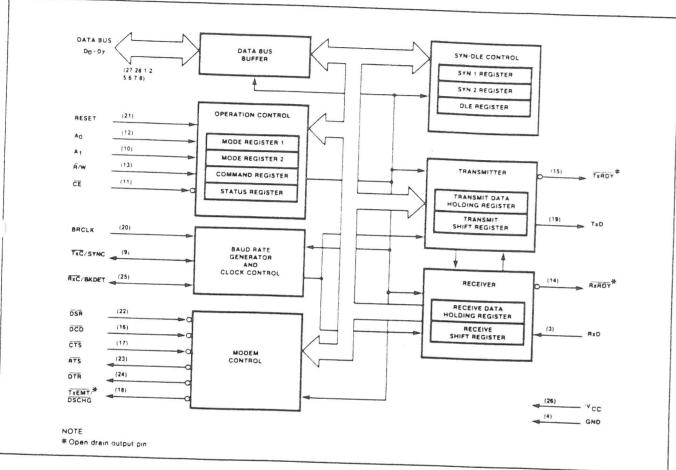
PACKAGES	COMMERCIAL RANGES VCC = 5V ± 5%, TA = 0°C to 70°C		
Ceramic DIP	2661-11 2661-21 2661-31	See table 1 for baud rates	
Plastic DIP	2661-1N 2661-2N 2661-3N	See table 1 for baud rates	

PIN DESIGNATION

PIN NO.	SYMBOL	NAME AND FUNCTION	TYPE
27,28,1,			TIPE
2,5-8	D ₀ -D ₇	8-bit data bus	110
21	RESET	Reset	1/0
12,10	A0-A1	Internal register select lines	1
13	R/W	Read or write command	1
11	CE	Chip enable input	1
22	DSR	Data set ready	1
24	DTR	Data terminal ready	1
23	RTS	Request to send	0
17	CTS	Clear to send	0
16	DCD	Data carrier detected	1
18	TXEMT/DSCHG	Transmitter empty or data set change	1
9	TxC/XSYNC	Transmitter clock/external SYNC	0
25	RxC/BKDET	Receiver clock break detect	1/0
19	TxD	Transmitter data	1/0
3	RxD	Receiver data	0
15	TXRDY	Transmitter ready	_
14	RXRDY	Receiver ready	0
20	BRCLK	Baud rate generator clock	Ü
26	VCC	+5V supply	i
4	GND	Ground	:

3.81

BLOCK DIAGRAM



BLOCK DIAGRAM

The EPCI consists of six major sections. These are the transmitter, receiver, timing, operation control, modem control and

/N/DLE control. These sections communicate with each other via an internal data bus and an internal control bus. The internal data bus interfaces to the microprocessor data bus via a data bus buffer.

Operation Control

This functional block stores configuration and operation commands from the CPU and generates appropriate signals to various internal sections to control the overall device operation. It contains read and write circuits to permit communications with the microprocessor via the data bus and contains mode registers 1 and 2, the command register, and the status register. Details of register addressing and protocol are presented in the EPCI programming section of this data sheet.

Table 1 BAUD RATE GENERATOR CHARACTERISTICS 2661-1 (BRCLK = 4.9152MHz)

MR23-20	BAUD RATE	ACTUAL FREQUENCY 16X CLOCK	PERCENT ERROR	DIVISOR
0000	50	0.8kHz		
0001	75	1.2	_	6144
0010	110	1.7598	-	4096
0011	134.5	2.152	-0.01	2793
0100	150	2.132	-	2284
0101	200		-	2048
0110	300	3.2	-	1536
0111	600	4.8	-	1024
1000		9.6	-	512
1001	1050	16.8329	0.196	292
1010	1200	19.2	-	256
	1800	28.7438	-0.19	171
1011	2000	31.9168	-0.26	154
1100	2400	38.4	-	128
1101	4800	76.8	_	
1110	9600	153.6		64
1111	19200	307.2	-	32
		307.2	-	16

ENHANCED PROGRAMMABLE COMMUNICATIONS INTERFACE (EPG)

Table 1 BAUD RATE GENERATOR CHARACTERISTICS (Cont'd) 2661-2 (BRCLK = 4.9152MHz)

MR23-20	BAUD RATE	ACTUAL FREQUENCY 16X CLOCK	PERCENT	DIVISOR
0000	45.5	0 7279kHz	0.005	1
0001	50	0.8		6752
0010	75	1 2	-	6144
0011	110		-	4096
0100	134 5	1 7598	-0.01	2793
0101	150	2.152	-	2284
0110		2.4	-	2048
	300	4.8	-	1024
0111	600	9.6	-	512
1000	1200	19.2	_	
1001	1800	28.7438	-0.19	256
1010	2000	31.9168		171
1011	2400	38 4	-0.26	154
1100	4800	76.8	-	128
1101	9600		-	64
1110	19200	153.6	-	32
1111		307.2	-	16
1111	38400	614.4	-	8

Receiver

table 1

Timing

The receiver accepts serial data on the RxD pin, converts this serial input to parallel format, checks for bits or characters that are unique to the communication technique and sends an "assembled" character to the

The EPCI contains a baud rate generator

(BRG) which is programmable to accept external transmit or receive clocks or to divide

an external clock to perform data communications. The unit can generate 16 commonly

used baud rates, any one of which can be

selected for full duplex operation. See

Transmitter

The transmitter accepts parallel data from the CPU, converts it to a serial bit stream. inserts the appropriate characters or bits (based on the communication technique) and outputs a composite serial stream of data on the TxD output pin.

Modem Control

The modem control section provides interfacing for three input signals and three output signals used for "handshaking" and status indication between the CPU and a modem

SYN, DLE Control

This section contains control circuitry and three 8-bit registers storing the SYN1. SYN2, and DLE characters provided by the CPU These registers are used in the synchronous mode of operation to provide the characters required for synchronization, idle fill and data transparency.

2661-3 (BRCLK = 5.0688MHz)

MR23-20	BAUD RATE	ACTUAL FREQUENCY 16X CLOCK	PERCENT ERROR	DIVISOR
0000	50	0.8kHz		
0001	75	1.2		6336
0010	110	1.76	-	4224
CO 1 1	134.5	2.1523	2 2 4 2	2880
0100	150	2.4	0.016	2355
0101	300	4.8	-	2112
0110	600	9.6	-	1056
0111	1200	19.2	-	528
1000	1800		-	264
1001	2000	28.8	-	176
1010	2400	32.081	0.253	158
1011		38.4	-	132
1100	3600	57.6	-	88
	48CC	76.8	-	66
1101	7200	115.2	-	44
1110	9600	153.6	-	33
1111	19200	316.8	3.125	16

16x crock is used in asynchronous mode. In synchronous mode, clock multiplier is 1X and

BRG can be used only for TxC

Table 2 CPU-RELATED SIGNALS

	J-NELATED		I
DIN NAME	DIN NO	INPUT/	FUNCTION
PIN NAME	PIN NO.	OUTPUT	FUNCTION
VCC	26	1	+5V supply input
GND	4	F	Ground
RESET	21	1	A high on this input performs a master reset on the 2661. This signal asynchronously terminates any device activity and clears the mode, command and status registers. The device assumes the idle state and remains there until initialized with the appropriate control words.
^ _Ao	10.12	į.	Address lines used to select internal EPCI registers
R∕W	13	ı	Read command when low, write command when high
CE	11	1	Chip enable command. When low, indicates that control and data lines to the EPCI are valid and that the operation specified by the \overline{R} W, A_1 and A_0 inputs should be performed. When high, places the D_0 - D_7 lines in the three-state condition
D ₇ -D ₀	8.7.6.5. 2.1.28,17	10	8-bit, three-state data bus used to transfer commands, data and status between EPCI and the CPU D ₀ is the least significant bit. D ₇ the most significant bit
TxRDY	15	0	This output is the complement of status register bit SRO. When low, it indicates that the transmit data holding register (THR) is ready to accept a data character from the CPU. It goes high when the data character is loaded. This output is valid only when the transmitter is enabled. It is an open drain output which can be used as an interrupt to the CPU.
RXRDY	14	0	This output is the complement of status register bit SR1. When low, it indicates that the receive data holding register (RHR) has a character ready for input to the CPU. It goes high when the RHR is read by the CPU, and also when the receiver is disabled. It is an open drain output which can be used as an interrupt to the CPU.
TxEMT/ DSCHG	18	0	This output is the complement of status register bit SR2. When low, it indicates that the transmitter has completed serialization of the last character loaded by the CPU, or that a change of state of the DSR or DCD inputs has occurred. This output goes high when the status register is read by the CPU, if the TxEMT condition does not exist. Otherwise, the THR must be loaded by the CPU for this line to go high. It is an open drain output which can be used as an interrupt to the CPU.

OPERATION

The functional operation of the 2661 is programmed by a set of control words supplied by the CPU. These control words specify items such as synchronous or asynchronous mode, baud rate, number of bits per character, etc. The programming procedure is described in the EPCI programming section of the data sheet

After programming, the EPCI is ready to perform the desired communications functions. The receiver performs serial to parallel conversion of data received from a modem or equivalent device. The transmitter converts parallel data received from the CPU to a serial bit stream. These actions are accomplished within the framework specified by the control words.

Receiver

The 2661 is conditioned to receive data when the DCD input is low and the RxEN bit in the command register is true. In the asynchronous mode, the receiver looks for a high to low (mark to space) transition of the start bit on the RxD input line If a transition is detected the state of the RxD line is sampled again after a delay of one-half of a bit time. If RxD is now high, the search for a valid start bit is begun again. If RxD is still low, a valid start bit is assumed and the receiver continues to sample the input line at one bit time intervals until the proper number of data bits, the parity bit, and one stop bit have been assembled. The data are then transferred to the receive data holding register, the RxRDY bit in the status register is set, and the RxRDY output is asserted. If the character length is less than 8 bits, the high order unused bits in the holding register are set to zero. The parity error, framing error, and overrun error status bits are strobed into the status register on the positive going edge of RxC corresponding to the received character boundary. If the stop bit is present, the receiver will immediately begin its search for the next start bit. If the stop bit is absent (framing error), the receiver will interpret a space as a start bit if it persists into the next bit time interval. If a break condition is detected (RxD is low for the entire character as well as the stop bit), only one character consisting of all zeros (with the FE status bit SR5 set) will be transferred to the holding register. The RxD input must return t a high condition before a search for the next start bit begins.

Pin 25 can be programmed to be a break detect output by appropriate setting of MR27-MR24. If so, a detected break will cause that pin to go high. When RxD returns to mark for one RxC time, pin 25 will go low. Refer to the break detection timing diagram.

Table 3 DEVICE-RELATED SIGNALS

DIN NAME	DIN NO	INPUT/	
PIN NAME	PIN NO.	OUTPUT	FUNCTION
*RxC BKDET	25	1.0	Clock input to the internal baud rate generator (see table 1). Not required if external receiver and transmitter clocks are used. Receiver clock. If external receiver clock is programmed, this input controls the ratifat which the character is to be received. Its frequency is 1X, 16X or 64X the baud rate, as programmed by mode register. Data are sampled on the rising edge of the clock. If internal receiver clock is pro-
·TxC XSYNC	9	10	grammed, this pin can be a 1X 16X clock or a break detect output pin. Transmitter clock if external transmitter clock is programmed, this input controls the rate at which the character is transmitted. Its frequency is 1X, 16X or 64X the baud rate, as programmed by mode register 1. The transmitted data changes on the falling edge of the clock if internal transmitter clock is programmed, this pin can
			be a 1X 16X clock output or an externa jam synchronization input.
RxD	3	1	Serial data input to the receiver "Mark" is high, "space" is low.
TxD	19	0	Serial data output from the transmitter "Mark" is high, "space" is low. Held in mark condition when the transmitter is dis- abled
DSR	22	ı	General purpose input which can be used for data set ready or ring indicator condition. Its complement appears as status register bit SR7. Causes a low output or TxEMT DSCHG when its state changes if CR2 or CR0 = 1
<u>DCD</u>	16	I	Data carrier detect input. Must be low in order for the receiver to operate. Its complement appears as status register bit SR6. Causes a low output on TxEMT. DSCHG when its state changes if CR2 or CR0 = 1 If DCD goes high while
CTS	17	I	receiving, the RxC is internally inhibited. Clear to send input. Must be low in order for the transmitter to operate. If it goes high during transmission, the character in the transmit shift register will be transmitted before termination.
DTR	24	0	General purpose output which is the com- plement of command register bit CR1. Nor- mally used to indicate data terminal ready
ĀTS	23	0	General purpose output which is the complement of command register bit CR5. Normally used to indicate request to send. If the transmit shift register is not empty when CR5 is reset (1 to 0), then RTS will go high one TxC time after the last serial bit is transmitted.

*RxC and TxC Dutputs have short circuit protection max. CL = 100pF. Outputs become open pircuited upon detect or of a zero pulled high or a one pulled low

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When the EPCI is initialized into the synchronous mode, the receiver first enters the hunt mode on a 0 to 1 transition of RxEN(CR2). In this mode, as data are shifted into the receiver shift register a bit at a time, the contents of the register are compared to the contents of the SYN1 register. If the two are not equal, the next bit is shifted in and the comparison is repeated. When the ... o registers match, the hunt mode is terminated and character assembly mode begins. If single SYN operation is programmed, the SYN DETECT status bit is set. If double SYN operation is programmed, the first character assembled after SYN1 must be SYN2 in order for the SYN DETECT bit to be set. Otherwise, the EPCI returns to the hunt mode. (Note that the sequence SYN1-SYN1-SYN2 will not achieve synchronization.) When synchronization has been achieved, the EPCI continues to assemble characters and transfer them to the holding register, setting the RxRDY status bit and asserting the RxRDY output each time a character is transferred The PE and OE status bits are set as appropriate. Further receipt of the appropriate SYN sequence sets the SYN DETECT status bit. If the SYN stripping mode is commanded, SYN characters are not transferred to the holding register. Note that the SYN characters used to establish initial synchronization are not transferred to the holding register in any case.

External jam synchronization can be achieved via pin 9 by appropriate setting of MR27-MR24. When pin 9 is an XSYNC input, the internal SYN1, SYN1-SYN2, and DLE-SYN1 detection is disabled. Each positive going signal on XSYNC will cause the receiver to establish synchronization on the rising edge of the next RxC pulse. Character assembly will start with the RxD input at this edge. XSYNC may be lowered on the next rising edge of RxC. This external synchronization will cause the SYN DETECT status bit to be set until the status register is read. Refer to XSYNC timing diagram.

Transmitter

The EPCI is conditioned to transmit data when the CTS input is low and the TxEN command register bit is set. The 2661 ind:cates to the CPU that it can accept a character for transmission by setting the TxRDY status bit and asserting the TxRDY output. When the CPU writes a character into the transmit data holding register, these conditions are negated. Data are transferred from the holding register to the transmit shift register when it is idle or has completed transmission of the previous character. The TxRDY conditions are then asserted again Thus, one full character time of buffering is provided.

In the synchronous mode, when the 2661 is initially conditioned to transmit, the TxD outout remains high and the TxRDY condition is asserted until the first character to be transmitted (usually a SYN character) is loaded by the CPU. Subsequent to this, a continuous stream of characters is transmitted. No extra bits (other than parity if commanded) are generated by the EPCI unless the CPU fails to send a new character to the EPCI by the time the transmitter has completed sending the previous character. Since synchronous communication does not allow gaps between characters, the EPCI asserts TxEMT and automatically "fills" the gap by transmitting SYN1s, SYN1-SYN2 doublets or DLE-SYN1 doublets, depending on the state of MR16 and MR17. Normal transmission of the message resumes when a new character is available in the transmit data holding register. If the SEND DLE bit in the cor and register is true, the DLF character is a lomatically transmitted prior to transmission of the message character in the

EPCI PROGRAMMING

Prior to initiating data communications, the 2661 operational mode must be programmed by performing write operations to the mode and command registers. In addition, if synchronous operation is programmed, the appropriate SYN/DLE registers must be loaded. The EPCI can be reconfigured at any time during program execution. A flowchart of the intialization process appears in figure 1

The internal registers of the EPCI are accessed by applying specific signals to the CE, R/W, A1 and A0 inputs. The conditions necessary to address each register are shown in table 4

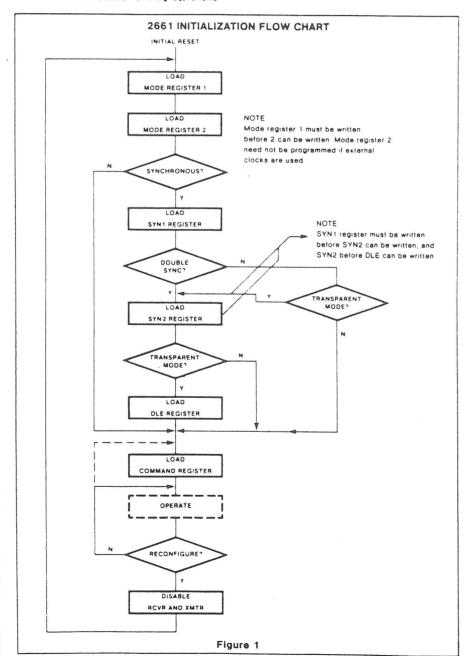
The SYN1, SYN2, and DLE registers are ac sed by performing write operations with the conditions $A_1 = 0$, $A_0 = 1$, and

Table 4 2661 REGISTER ADDRESSING

CE	A ₁	A _O	R∕W	FUNCTION
1	X	X	X	Three-state data bus
0	0	0	0	Read receive holding register
0	0	0	1	Write transmit holding register
0	0	1	0	Read status register
0	0	1	1	Write SYN1/SYN2/DLE registers
0	1	0	0	Read mode registers 12
0	1	0	1	Write mode registers 12
0	1	1	0	Read command register
0	1	1	1	Write command register

See AC characteristics section for timing requirements

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 \overline{R} W = 1 The first operation loads the acter and the receiver performs a parity SYN1 register The next loads the SYN2 register, and the third loads the DLE register Reading or loading the mode registers is done in a similar manner. The first write (or read) operation addresses mode register 1 and a subsequent operation addresses mode register 2. If more than the required number of accesses are made, the internal sequencer recycles to point at the first reaister. The pointers are reset to SYN1 register and mode register 1 by a RESET input or by performing a read command register operation, but are unaffected by any other read

The 2661 register formats are summarized in tables 5, 6, 7 and 8 Mode registers 1 and 2 define the general operational characteristics of the EPCI, while the command register controls the operation within this basic framework. The EPCI indicates its status in the status register. These registers are cleared when a RESET input is applied.

Mode Register 1 (MR1)

Table 5 illustrates Mode Register 1 Bits MR11 and MR10 select the communication format and baud rate multiplier. 00 specifies synchronous mode and 1X multiplier 1X 16X, and 64X multipliers are programmable for asynchronous format. However, the multiplier in asynchronous format applies only if the external clock input option is selected by MR24 or MR25

MR13 and MR12 select a character length of 5, 6, 7 or 8 bits. The character length does not include the parity bit, if programmed, and does not include the start and stop bits in asynchronous mode.

MR14 controls parity generation. If enabled. a parity bit is added to the transmitted char-

check on incoming data. MR15 selects odd or even parity when parity is enabled by

In asynchronous mode, MR17 and MR16 seiect character framing of 1, 15, or 2 stop bits (If 1X baud rate is programmed, 1.5 stop bits defaults to 1 stop bits on transmit.) In synchronous mode, MR17 controls the number of SYN characters used to establish synchronization and for character fill when the transmitter is idle. SYN1 alone is used if MR17 = 1, and SYN1-SYN2 is used when MR17 = 0. If the transparent mode is specified by MR16, DLE-SYN1 is used for character fill and SYN detect, but the normal synchronization sequence is used to establish character sync When transmitting, a DLE character in the transmit holding register will cause a second DLE character to be transmitted This DLE stuffing eliminates the software DLE compare and stuff on each transparent mode data character If the send DLE command (CR3) is active when a DLE is loaded into THR, only one additional DLE will be transmitted. Also, DLE stripping and DLE detect (with MR14 = 0) are enabled.

The bits in the mode register affecting character assembly and disassembly (MR12-MR 16) can be changed dynamically (during active receive transmit operation). The character mode register affects both the transmit.er and receiver; therefore in synchronous mode, changes should be made only in half duplex mode (RxEN = 1 or TxEN = 1, but not both simultaneously = 1) In asynchronous mode, character changes should be made when RxEN and TxEN=0 or when TxEN = 1 and the transmitter is marking in half duplex mode (RxEN = 0).

To effect assembly / disassembly of the next received/transmitted character, MR12-15 must be changed within n bit times of the active going state of RxRDY / TxRDY. Transparent and non-transparent mode changes (MR 16) must occur within n-1 bit times of the character to be affected when the receiver or transmitter is active. (n = smaller of the new and old character lengths.)

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Mode Register 2 (MR2)

Table 6 illustrates mode register 2. MR23, MR22, MR21 and MR20 control the frequency of the internal baud rate generator (BRG) Sixteen rates are selectable for each EPCI version (-1, -2, -3). Version 1 and 2 specify a 4.9152 MHz TTL input at BRCLK (pin 20); version 3 specifies a 5.0688 MHz input which is identical to the Signetics 2651 MR23-20 are don't cares if external clocks are selected (MR25-MR24 = 0) The individual rates are given in table 1

MR24-MR27 select the receive and transmit clock source (either the BRG or an external input) and the function at pins 9 and 25 Re-

Command Register (CR)

Table 7 illustrates the command register. Bits CR0 (TxEN) and CR2 (RxEN) enable or disable the transmitter and receiver respectively. A 0 to 1 transition of CR2 forces start bit search (async mode) or hunt mode (sync mode) on the second RxC rising edge. Disabling the receiver causes RxRDY to go high (inactive). If the transmitter is disabled. it will complete the transmission of the character in the transmit shift register (if any) prior to terminating operation. The TxD output will then remain in the marking state

Table 5 MODE REGISTER 1 (MR 1)

MR17	MR16	MR15	MR14	MR13 MR12	MR11 MR10		
Synd	c Async	Parity Type	Parity Control	Character Length	Mode and Baud Rate Factor		
Async: Stop B 00 = Invalid 01 = 1 stop bi 10 = 1'2 stop 11 = 2 stop bi	t bits	0 = Odd 1 = Even	0 = Disabled 1 = Enabled	00 = 5 bits 01 = 6 bits 10 = 7 bits 11 = 8 bits	00 = Synchronous 1X rate 01 = Asynchronous 1X rate 10 = Asynchronous 16X rate 11 = Asynchronous 64X rate		
Sync: Number of SYN char 0 = Double SYN 1 = Single SYN	Sync: Transparency Control 0 = Normal 1 = Transparent						

Bauditate factor in asymphonicus applies only if externation, rik is selected. Pactor is 16X-1

oternal licex is selected. Mode must be selected (MRTI MRTI) in any take

Table 6 MODE REGISTER 2 (MR2)

					MR27	-MR24					MR23-MR20
L	TxC	RxC	Pin 9	Pin 25		TxC	RxC	Pin 9	Pin 25	Mode	Baud Rate Selection
0000	Ε	Ε	TxC	RxC	1000	Е	Ε	XSYNC	R×C T×C	sync	
0001	Ε	1	TxC	1 X	1001	E	1	TxC	BKDET	async	
0010	I	Ε	1 X	RxC	1010	1	Ε	XSYNC'	R×C	SYNC	
0011	Ī	1	1 X	1X	1011	1	1	1 X	BKDET	async	See baud rates in table 1
0100	Ε	E	TxC	RxC	: 100	Ε	E	XSYNC	RXC TXC	sync	See badd lates in table 1
0101	E	1	TxC	16X	1101	Ε	ſ	TxC	BKDET	async	
0110	1	E	16X	RxC :	1110	1	Ε	XSYNC	RxC	sync	
0111	1	1	16X	16X	1111	1	1	16X	BKDET	async	

When pin 9 is programmed as XSYNC input SYN1 SYN1 SYN2 and DLE SYN1 detec

E = External clock

T .e 7 COMMAND REGISTER (CR)

CR7 CR6	CR5	CR4	CR3	CR2	CR1	CRO
Operating Mode	Request To Send	Reset Error	Sync Async	Receive Control (RxEN)	Data Terminal Ready	Transmit Control (TxEN)
OC = Normal operation O1 = Async Automatic echo mode Sync SYN and or DLE stripping mode 10 = Local loop back tt = Remote loop back	0 = Force RTS output high one clock time after TxSR serialization 1 = Force RTS output low	O = Normal 1 = Reset error flags in status register (FE, OE, PE, DLE detect)	Async: Force break 0 = Normal 1 = Force break	0 = Disable 1 = Enable	0 = Force DTR output high 1 = Force DTR output low	0 = Disable 1 = Enable
			Sync: Send DLE 0 = Normal 1 = Send DLE			

Table 8 STATUS REGISTER (SR)

SR7	SR6	SR5	SR4	SR3	SR2	SR1	SRO
Data Set Ready	Data Carrier Detect	FE SYN Detect	Overrun	PE DLE Detect	TxEMT DSCHG	RxRDY	TxRDY
= CSR nput s high = DSR input s low	0 = OCD input is high 1 = OCD input is low		0 = Normal 1 = Overrun Error	Async: C = Norma! ! = Parity error	0 = Normal 1 = Change in DSR or DCD or transmit shift register is empty	 D = Receive holding register empty 1 = Receive holding register has data 	D = Transmit holding register busy t = Transmit holding register empty
	ŗ	Sync. 3 = Norma: 1 = SYN detected		Sync: C = Normal 1 = Parity error or DLE received	4		

(high) while TxRDY and TxEMT will go high (inactive) If the receiver is disabled, it will terminate operation immediately. Any character being assembled will be neglected. A 0 to 1 transition of CR2 will initiate start bit search (async) or hunt mode (sync).

Bits CR1 (DTR) and CR5 (RTS) control the DTR and RTS outputs. Data at the outputs the logical complement of the register

In asynchronous mode, setting CR3 will force and hold the TxD output low (spacing condition) at the end of the current transmitted character Normal operation resumes when CR3 is cleared. The TxD line will go high for at least one bit time before beginning transmission of the next character in the transmit data holding register. In synchronous mode, setting CR3 causes the transmission of the DLE register contents prior to sending the character in the transmit — is no internal latch for this bit.

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data holding register Since this is a one time command. CR3 does not have to be reset by software CR3 should be set when entering and exiting transparent mode and for all DLE - non-DLE character sequences

Setting CR4 causes the error flags in the status register (SR3, SR4, and SR5) to be cleared. This is a one time command. There

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Table 9 2661 EPCI vs 2651 PCI

FEATURE	EPCI	
		PCI
1. MR2 Bit 6, 7	Control pin 9, 25	Not used
2. DLE detect-SR3	SR3 = 0 for DLE-DLE, DLE-SYNC1	SR3 = 1 for DLE-DLE, DLE-SYNC1
 Reset of SR3, DLE detect 	Second character after DLE, or receiver disable, or CR4 = 1	Receiver disable, or CR4 = 1
4 Send DLE-CR3	One time command	Peset via CR3 on next TxRDY
 DLE stuffing in transparent mode 	Automatic DLE stuffing when DLE is loaded except if CR3 = 1	None
 SYNC1 stripping in double sync non-transparent mode 	All SYNC1	First SYNC1 of pair
 Baud rate versions 	Three	One
8. Terminate ASYNC transmission (drop RTS)	Reset CR5 in response to TxRDY changing from 0 to 1	Reset CRO when TXEMT goes from 1 to 0. Then reset CR5 when TXEMT goes from 0 to 1
Break detect	Pin 25"	FE and null character
Stop bit searched	One	Two
11. External jam sync	Pin 9-	No
Data bus timing	Improved over 2651	_
Data bus drivers	Sink 2.2mA	Sink 1.6mA
	Source 400µA	Source 100µA

NOTES

1 Internal BRG used for RxC

2 Internal BRG used for TxC

When CR5 (RTS) is set, the RTS pin is forced low and the transmit serial logic is enabled. A 1 to 0 transition of CR5 will cause RTS to go high (inactive) one TxC time after the last serial bit has been transmitted (if the transmit shift register was not empty).

The EPCI can operate in one of four submodes within each major mode (synchronous or asynchronous). The operational sub-mode is determined by CR7 and CR6. CR7-CR6 = 00 is the normal mode, with the transmitter and receiver operating independently in accordance with the mode and status register instructions

In asynchronous mode, CR7-CR6 = 01 places the EPCI in the automatic echo mode. Clocked, regenerated received data are automatically directed to the TxD line while normal receiver operation-continues. The receiver must be enabled (CR2 = 1), but the transmitter need not be enabled. CPU to receiver communications continues normally, but the CPU to transmitter link is disabled Only the first character of a break condition is echoed. The TxD output will go high until the next valid start is detected. The following conditions are true while in automatic echo mode

- 1. Data assembled by the receiver are automatically placed in the transmit holding register and retransmitted by the transmitter on the TxD output.
- 2. The transmitter is clocked by the receive
- 3. TxRDY output = 1.
- 4. The TxEMT/DSCHG pin will reflect only the data set change condition.
- 5. The TxEN command (CR0) is ignored.

In synchronous mode, CR7-CR6 = 01 places the EPCI in the automatic SYN/DLE stripping mode. The exact action taken depends on the setting of bits MR17 and MR16:

- 1. In the non-transparent, single SYN mode (MR17-MR16 = 10), characters in the data stream matching SYN1 are not transferred to the receive data holding register (RHR).
- . In the non-transparent, double SYN mode (MR17-MR16 = 00), characters in the data stream matching SYN1, or SYN2 if immediately preceded by SYN1, are not transferred to the RHR
- 3. In transparent mode (MR16 = 1), characters in the data stream matching DLE, or SYN1 if immediately preceded by DLE, are not transferred to the RHR. However,

only the first DLE of a DLE-DLE pair is stripped.

Note that automatic stripping mode does not affect the setting of the DLE detect and SYN detect status bits (SR3 and SR5).

Two diagnostic sub-modes can also be configured. In local loop back mode (CR7-CR6 = 10), the following loops are connected internally

- 1. The transmitter output is connected to the receiver input
- 2. DTR is connected to DCD and RTS is connected to CTS.
- 3. The receiver is clocked by the transmit
- 4. The DTR, RTS and TxD outputs are held
- 5. The CTS, DCD, DSR and RxD inputs are

Additional requirements to operate in the local loop back mode are that CRO (TxEN). CR1 (DTR), and CR5 (RTS) must be set to 1 CR2 (RxEN) is ignored by the EPCI.

The second diagnostic mode is the remote loop back mode (CR7-CR6 = 11). In this

- 1. Data assembled by the receiver are automatically placed in the transmit holding register and retransmitted by the transmitter on the TxD output.
- 2. The transmitter is clocked by the receive
- 3. No data are sent to the local CPU, but the error status conditions (PE, OE, FE) are
- 4. The RXRDY, TXRDY, and TXEMT/DSCHG outputs are held high.
- 5. CR1 (TxEN) is ignored.
- 6. All other signals operate normally.

Status Register

The data contained in the status register (as shown in table 8) indicate receiver and transmitter conditions and modem/data set

SR0 is the transmitter ready (TxRDY) status bit. It, and its corresponding output, are valid only when the transmitter is enabled. If equal to 0, it indicates that the transmit data holding register has been loaded by the CPU and the data has not been transferred to the transmit shift register. If set equal to 1, it indicates that the holding register is ready to accept data from the CPU. This bit is initially set when the transmitter is enabled by CRO, unless a character has previously been loaded into the holding register. It is not set when the automatic echo or remote loopback modes are programmed. When this bit is set, the TxRDY output pin is low. In

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the automatic echo and remote loop back—cleared by loading the transmit data holding modes, the output is held high

SR1, the receiver ready (RxRDY) status bit. indicates the condition of the receive data holding register If set, it indicates that a character has been loaded into the holding register from the receive shift register and is ready to be read by the CPU if equal to zero, there is no new character in the holding register. This bit is cleared when the CPU reads the receive data holding register or when the receiver is disabled by CR2 When set, the RXRDY output is low.

The TxEMT DSCHG bit, SR2, when set, indicates either a change of state of the DSR or DCD inputs (when CR2 or CR0 = 1) or that transmit shift register has completed transmission of a character and no new character has been loaded into the transmit data holding register. Note that in synchro-

register The DSCHG condition is enabled when TxEN = 1 or RxEN = 1 it is cleared when the status register is read by the CPU If the status register is read twice and SR2 = 1 while SR6 and SR7 remain unchanged, then a TxEMT condition exists When SR2 is set, the TxEMT DSCHG output

SR3, when set, indicates a received parity error when parity is enabled by MR14. In synchronous transparent mode (MR 16 = 1) with parity disabled, it indicates that a charand the present character is neither SYN1 nor DLE. This bit is cleared when the next character following the above sequence is loaded into RHR, when the receiver is disabled, or by a reset error command. CR4

The overrun error status bit. SR4, indicates nous mode this bit will be set even though that the previous character loaded into the the appropriate "fill" character is transmitted TxEMT will not go active until at least. CPU at the time a new received character one character has been transmitted. It is was transferred into it. This bit is cleared

when the receiver is disabled or by the reset error command CR4

In asynchronous mode, bit SR5 signifies that the received character was not framed by a stop bit ie only the first stop bit is checked If RHR = 0 when SR5 = 1, a break condition is present. In synchronous nontransparent mode (MR16 = C), it indicates receipt of the SYN1 character in single SYN mode or the SYN1 SYN2 pair in double SYN mode in synchronous transparent mode (MR 16 = 1), this bit is set upon detection of the initial synchronizing characters (SYN1 acter matching DLE register was received or SYN1-SYN2) and, after synchronization has been achieved, when a DLE-SYN1 pair is received. The bit is reset when the receiver is disabled, when the reset error command is given in asynchronous mode, or when the status register is read by the CPU in the synchronous mode

> SR6 and SR7 reflect the conditions of the DCD and DSR inputs respectively. A low input sets its corresponding status bit, and a high input clears it

ABSOLUTE MAXIMUM RATINGS1

PARAMETER	RATING	UNIT
Operating ambient temperature	0 to +70	
Storage temperature	-65 to + 150	C
All voltages with respect to ground	-0.5 to +6.0	
	03.0760	V

DC ELECTRICAL CHARACTERISTICS TA = 0°C to +70°C, VCC = 5 0V ± 5 = 4 2 c

	PARAMETER	PARAMETER TEST CONDITIONS		LIMITS			
	Inout velta-	- CONDITIONS	Min	Тур	Max	דואט	
v)	Input voltage Low High				0.8	V	
VOL VOH	Output voltage Low High	i _{OL} = 2.2mA I _{OH} = -400μA	2.0		0.4	V	
L	Input leakage current	V _{IN} = 0 to 5.5 V	2.4				
	3-state output leakage current				10	μА	
_H _L	Data bus high Data bus low	VO = 4 0V VO = 0 45V			10	μА	
CC	Power supply current				150	mA	

CAPACITANCE TA = 25°C, VCC = 0V

	PARAMETER	TEST CONDITIONS		LIMITS		
	Capacitance	. EST CONDITIONS	Min	Тур	Max	UNIT
CIN	Input		I			pF
COUT	Output	to = 11411-	1		20	
CIO	Input / Output	fc = 1MHz Unmeasured pins fied to ground			20	
	* "3 Sage	pins fied to ground			20	

AC ELECTRICAL CHARACTERISTICS TA = 0°C to +70°C, VCC = 5 0V ± 5% 456

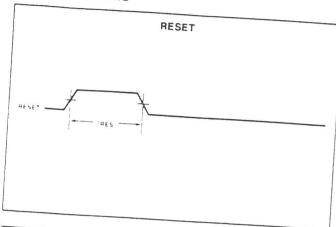
	PARAMETER	TEST CONDITIONS	Min	Тур	Max	UNIT
!RES	Pulse width Reset		1000			ns
ICE	Chip enable		250		!	
	Setup and hold time				+	-
IAS	Address setup		10	1	I	ns
1AH	Address hold		10	1	i	
tcs	R W control setup		10	i		
1CH	R W control hold		10			
tDS	Data setup for write		150			
^t DH	Data hold for write		0			
^t RXS	Rx data setup		300			
†RXH	Rx data hold		350			
too	Data delay time for read	C _L = 150pF		-	-	
tor	Data bus floating time for read	$C_1 = 150pF$			200	ns
†CED	CE to CE delay	2	600		100	
	Input clock frequency			<u> </u>	-	
fBRG	Baud rate generator (2661-12)					MHz
BRG	Baud rate generator		1.0	4 9 1 5 2	4.9202	
	(2661-3)		1.0	5 0000	_	
fR/T	TxC or RxC 10		dc	5 0688	5 0738	
	Clock width		- dc		1.0	
[†] BRH ⁹	Baud rate high (2661-1-2)					ns
†BRH ⁹	Baud rate high (2661-3)		75			
BRL9	Baud rate low (2661-1-2)		70			
BRL9	Baud rate low (2661-3)		75			
tR TH	TxC or RxC high		70			
tR/TL	TxC or AxC low 10		480			
[†] TXD	TxD delay from falling		460			
	edge of TxC	$C_{l} = 150pF$				
¹TCS	Skew between TxD changing and	CL - 190PF		i	650	ns
. 00	falling edge of TxC output 8	$C_1 = 150pF$				

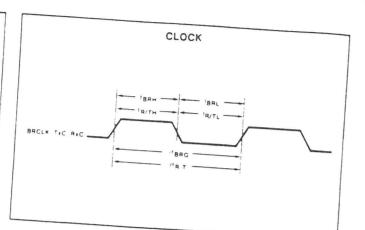
- 1. Stresses above those listed under Absolute Maximum Ratings may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or at any other condition above those indicated in the operation section of this specification is not implied
- 2 For operating at elevated temperatures, the device must be derated based on + 150°C maximum junction temperature and thermal resistance of 60°C. W junction to ambient (IQ ceramic package)
- 3 This product includes circuitry specifically designed for the protection of its internal devices from the damaging effects of excessive static charge. Nonetheless it is suggested that conventional precautions be taken to avoid applying any voltages larger than the rated maxima
- 4 Parameters are valid over operating temperature range unless otherwise specified
- 5. All voltage measurements are referenced to ground. All time measurements are at the 50% level for inputs (except tBRH and tBRL) and at 0.8V and 2.0V for outputs, input levels swing between 0 4V and 2 4V with a fransition time of 20ns maximum
- 6^{-1} ypical values are at $\pm 25^{\circ}$ C. Typical supply voltages and Typical processing param
- 7 TARDY RARDY and TAEMT DSCHG outputs are open drain
- 8 Parameter applies when internal transmitter clock is used
- 9 Under test conditions of 5 0688 MHz (BRG (2661 3) and 4 9152 MHz (BRG (2661 1 2) BRH and BRL measured at VIH and VIL respectively
- 10 In asynchronous local loopback mode, using 1X clock, the following parameters apply: $\rm f_{R/T}$ = 0.83 MHz max, and $\rm \tau_{R/TL}$ = 700 ns min.

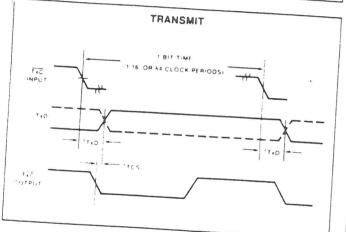
ENHANCED PROGRAMMABLE COMMUNICATIONS INTERFACE (EPCI)

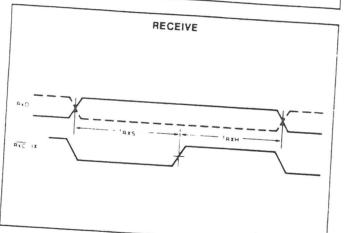
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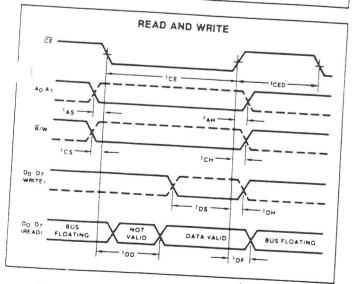
TIMING DIAGRAMS







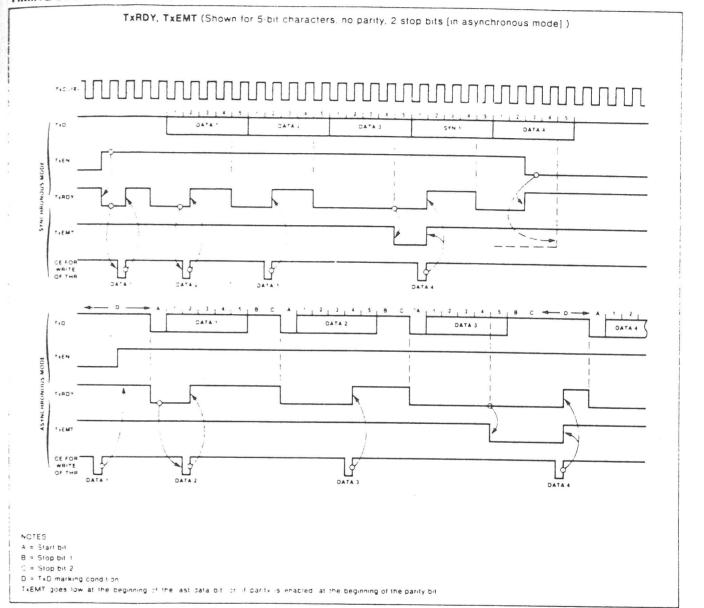




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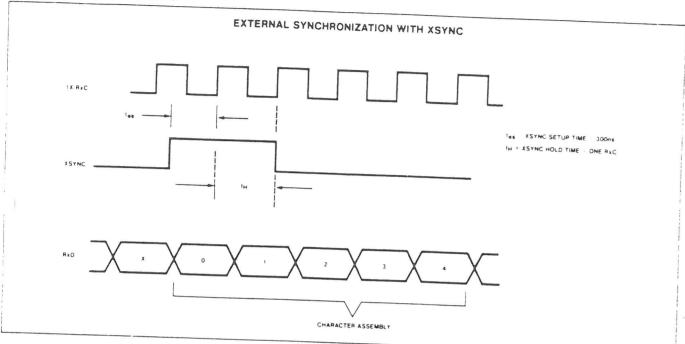


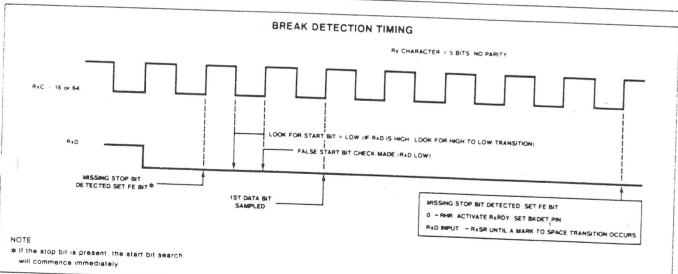


ENHANCED PROGRAMMABLE COMMUNICATIONS INTERFACE (EPCI)

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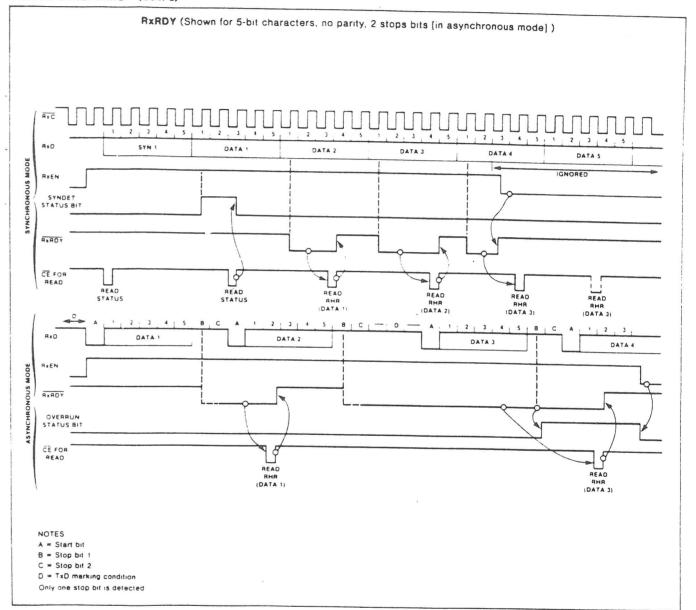




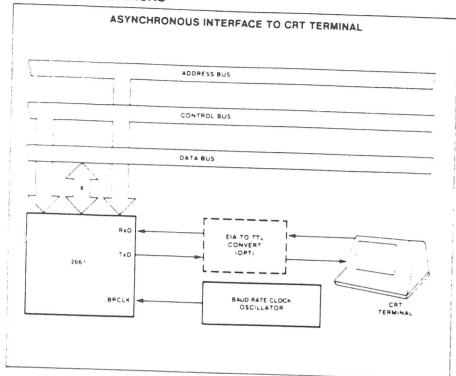
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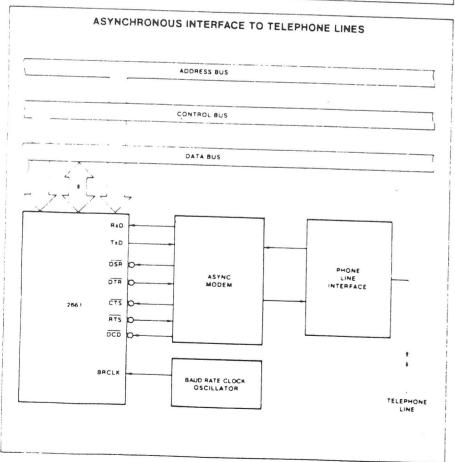
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TIMING DIAGRAMS (Cont'd)



TYPICAL APPLICATIONS

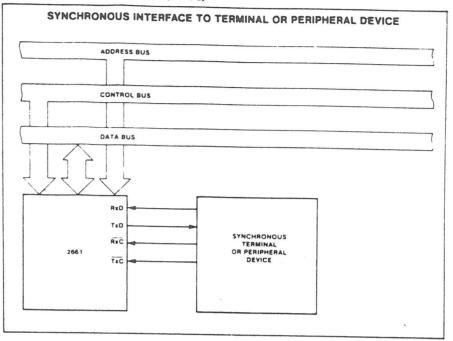


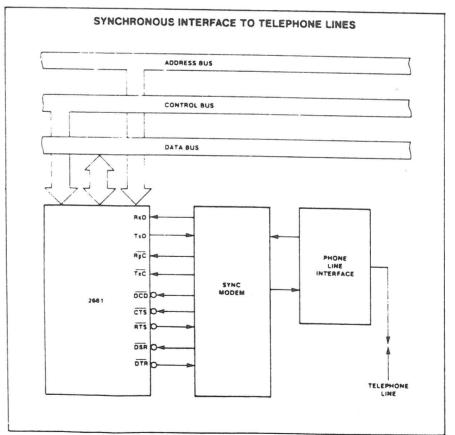


ENHANCED PROGRAMMENT FORM INCATIONS INTERFACE (EPCI)

2661

TYPICAL APPLICATIONS (Cont'd)





Dieses Datenblatt gibt keine Auskunft über Liefermöglichkeiten. Die angegebenen Daten dienen allein der Produktbeschreibung und sind nicht als zugesicherte Eigenschaften im Rechtssinne aufzufassen. Etwarge Schadensersatzansprüche gegen uns — gleich aus welchem Rechtsgrund — sind ausgeschlossen, soweil uns nicht Vorsatz oder grobe Fahrlassigkeit trifft. Es wird keine Gewahr übernommen, daß die angegebenen Schaltungen oder Verlahren frei von Schutzrechten Dritter sind. Ein Nachdruck — auch auszugsweise — ist nur zulassig mit Zustimmung des Herausgebers und mit genauer Quellenangabe.

INTRODUCTION

This application note describes procedures for switching the operating mode of the Signetics' 2661 Enhanced Programmable Communications Interface (EPCI) from echoplex or remote loopback mode to normal operation and vice-versa

ECHOPLEX (AUTOMATIC ECHO) MODE TO NORMAL **OPERATION**

The echoplex operation is initiated by setting command register bits CR7:CR6 = 01, and CR2 (receiver enable bit) = 1. Echoplex operation is terminated by resetting CR2 to zero. To ensure the proper transmission of the last received character, no change of operating mode should be made until the end of that character. However, if mode switching is necessary in certain applications, the following procedure is recommended to ensure no garbling on the last transmitted character. Two potential problems may arise: the calculated parity instead of the received parity may be transmitted, and data rate may be shortened or lengthened.

The procedure provides the necessary handshaking to avoid these potential problems by making use of the TXEMT/ DSCHG pin or of the status register bit 2.

SR2, to indicate the end of the parity bit or the first stop bit, depending on whether one or two stop bits are selected (MR17:MR16 = 01 or 11). The procedure causes TXEMT/DSCHG to be driven to its active state only at the completion of the last character, as shown in figure 1.

The recommended sequence of operation is as follows:

- 1. Wait for RXRDY (either RXRDY interrupt or status read). This is necessary for the assembly of the last character to be completed and to ensure the transfer of this character to the transmitter
- 2. Enable the transmitter by setting CRO to one
- 3. Disable the receiver by setting CR2 to zero.
- 4. Wait for TXEMT (either TXEMT/ DSCHG interrupt or status read). At this point, the parity bit or the first stop bit (if two stop bits are selected) has been sent out.
- 5. Change mode from echoplex to normal.
- 6. Load new character into the transmit holding register, THR. Further communication between the 2661 chip and the CPU will resume as normal - that is, . TXRDY is driven active to indicate that the THR is available for new data and

TXEMT is driven active upon underrun condition

Note that the TXEMT pin is not driven active in echoplex mode. It is optionally driven active when the above steps are followed, particularly the transmitter being enabled as indicated in step 2. Because the transmitter relies on CR0 = 1 and CR2 = 0 to drive TXEMT active, it is necessary to set CR0 to zero in echoplex mode if it is desired not to drive TXEMT active. CRO, transmitter enable, is ignored for data transmission in echoplex mode. It is, however, used to determine whether TXEMT should be driven active.

If frequent mode switching is anticipated and it is desired to drive TXEMT active, step 2 of the above procedure could be skipped, provided that the echoplex operation is initiated by enabling both the receiver and the transmitter - that is, CR2:CR0 = 11

The TXEMT timing shown above is only

